

# **DUNCAN AVIATION**

# N414MP TECHNICAL HISTORY

## **CESSNA 414A SN 414A0317**

Technical history and data is subject to verification by purchaser's inspection. Data provided does not represent the complete technical history. Aircraft Records are available for inspection.





# AIRCRAFT SALES & ACQUISTIONS



Established in 1956 as a Beechcraft distributor, Duncan Aviation has grown into North America's largest family owned aircraft service facility with more than 2,900 team members working at three full-service locations (Battle Creek, Michigan, Lincoln, Nebraska, and Provo, Utah) and more than 25 avionics satellite and engine Rapid Response teams located throughout North America.

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The Duncan family includes several generations of passionate aviators. We own and operate aircraft ranging from J-3 Cubs to mid-size jets. We understand the ins and outs of the entire aircraft ownership experience because we've owned and operated our own aircraft since 1956.



Robert Duncan



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N#	N414MP		nufacturer:	tenance S					Sor #	414A-0317
		Ma								
Owner:	Dan Bawabe		Model:	414A			-			5673.0
		-			-				dated Hobbs	
			Hour Inspec		-			Hobbs	Htr. Hobbs	Date
		5700.9	100	Aug-25				1850.8	632.7	9/18/24
Item	Part		DUE			ervice Lif			Installed	
#	Description	Hours	Months	Date	Hours	Cycle	Years	ACTT	Cycle	Date
1	Operation #1	27.9			153.7			5547.2		10/25/202
2	Operation #2	69.5 144.9			144.7 167.0			5597.8 5650.9		3/1/2024 8/1/2024
4	Operation #3 Operation #4	169.3	10	Aug-25	167.0		1	5650.9		8/1/2024
4 5	50 hr. Cessna Special Insp.	27.9	10	Aug-25	50.0			5650.9		8/1/2024
6	400 hr. Cessna Special Insp.	324.8	+ +		400.0			5597.8		3/1/2024
7	500 hr. Cessna Special Insp.	336.5			500.0			5509.5		6/29/202
8	600 hr. Cessna Special Insp.	160.6			600.0			5233.6		9/13/202
9	800 hr. Cessna Special Insp.	724.8			800.0			5597.8		3/1/2024
10	1000 hr. Cessna Special Insp.	330.1			1000.0			5003.1		6/17/202
11	Type A Cabin & Type B Wing Insp.	760.6			1200.0			5233.6		9/13/202
12	Type B Cabin Insp.	327.0			6000.0			0.0		7/31/197
13	Type C Cabin Insp.	7527.0			13200.0			0.0		7/31/197
14	Engine Beam Radiographic Insp.	4780.2			9600.0			853.2		9/11/198
15	One Year Cessna Special Insp.		10	Aug-25			1			8/1/2024
16	O2 Bottle Hydrostatic Test		45	Jun-28			5			6/29/202
17	N2 Bottle Hydrostatic Test	100 -	5	Feb-25			5	)		2/22/202
18	600 hr. or 1 Year Cessna Special Insp.	436.5	10	Aug-25	600.0		1	5509.5		8/1/202
19	1000 hr. or 3 Year Cessna Special Insp.	737.1	12	Sep-25	1000.0		3	5410.1		9/13/202
20 21	6000 hr. Cessna Special Insp. 13200 hr. Cessna Special Insp.	327.0 7527.0			6000.0 13200.0			0.0		7/31/197
21	500 Hr Hyd. Lines Pressure Test	374.2			500.0			5547.2		10/25/202
23	Main Battery Replacement	4285.3		Feb-25	5000.0		5	4958.3		2/26/202
23	Main Battery Capacity Check	577.9	8	Jun-25	600.0		1	5650.9		6/1/202
25	600 hr. Float Valves Check (AD95-09-13)	160.6		001120	600.0		· ·	5233.6		9/13/202
26	AD 2000-01-16, para. B - Exhaust Insp	27.9			50.0			5650.9		8/1/202
27	AD 2000-01-16, para. C - Exhaust Insp		5	Mar-25	0010		1	000010		3/1/202
28	AD 2000-01-16, para. D - Exhaust Insp	279.5			500.0			5452.5		3/14/202
29	AD 2000-01-16, para. E - Exhaust Insp	424.8	17	Mar-26	500.0		1	5597.8		3/1/202
30	AD 2000-01-16, para. G - Exhaust Insp	2279.5	126	Mar-35	2500.0		12	5452.5		3/14/202
31	500 hr. Magneto Insp. R Eng.	279.5			500.0			5452.5		3/14/202
32	500 hr. Magneto Insp. L Eng.	279.5			500.0			5452.5		3/14/202
33	500 hr. Eng Air Filter R+R (AD 84-26-02)	279.5	66	Mar-30	500.0		7	5452.5		3/14/202
34	Heater P.D.T. (AD 2004-21-05)	224.8	17	Mar-26	300.0		2	5597.8		3/1/202
35	Heater Fuel Valve (AD 2004-25-16R1)	77.9	10	Aug-25	100.0		1	5650.9		8/1/202
36	Aircraft Reweigh		8	Jun-25			3			6/3/202
37	FAR 91.207(d) ELT Check		/	May-25			1			5/1/202
38	ELT Battery		14	Nov-25			6			11/27/20 8/18/202
39 40	Life Jackets Recert. 6 Month Cabin Fire Ext. Check		95 1	Aug-32 Oct-24			10 0.5			5/1/202
40	FAR 91.411 (#1 Pitot/Static/Altimeter Chk.)		0	Oct-24 Oct-24			0.5			10/11/202
42	FAR 91.411 (#2 Pitot/Static/Altimeter Chk.)		0	Oct-24			2	1		10/11/20
43	Compass Accuracy Check		19	May-26			2			5/1/202
44	FAR 91.411 (#1 Encoder Check)		0	Oct-24			2			10/11/20
45	FAR 91.411 (#2 Encoder Check)		Ŏ	Oct-24			2			10/11/20
46	FAR 91.413 (#1 Txpdr. Chk.)		0	Oct-24			2	)		10/11/20
47	FAR 91.413 (#2 Txpdr. Chk.)		0	Oct-24			2	2		10/11/20
48	AD 2016-17-08 (Trim tab Hdwr)	87.9	10	Aug-25	110.0		1	5650.9		8/1/202

## N414MP COMPONENT TIMES

Date:	9/18/2024	Hourmeter:	1850.8	N#: N414MP
Manufacturer:	Cessna	Total Time	5673.4	Prepared by: Shoreline Aviation, Inc., Marshfield, MA
Model:	414A			
Ser. #	414A-0317			

Item	Part Part	PART	Part Serial	DL	JE	Servi	ce Life	Installe	bd
#	<u>No.</u>	Description	Number		cle Date	Hours yc	<u>Date</u>	Hours Cycle	
1	TSIO 520-NB	Engine, Left	514067	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
2	TSIO-520-NB	Engine, Right	519264	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
3	PHC-C3YF-2U	Propeller, Left	EB7625B	7226.9	5/31/2025	2400.0	72 months	4826.9	5/23/2019
4	PHC-C3YF-2U	Propeller, Right	EB7629B	7226.9	5/21/2025	2400.0	72 months	4826.9	5/23/2019
5	DCFS290D9/T	Prop. Gov., Left	950126	7452.5	3/31/2028	2000.0	60 months	5452.5	3/14/2023
6	DCFS290D9/T		990118	7452.5	3/31/2028		60 months	5452.5	3/14/2023
7	ES6320	L eng, L magneto	K-K07006	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
8	ES6320	L eng, R magneto R eng, L magneto	K-K07007	7052.5	3/31/2035	1600.0	144 mionths	5452.5	3/14/2023
9	ES6320	R eng, L magneto	K-K07008	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
10	ES6320	R eng, R magneto	K-K07009	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
11	RAP442CW	Vac. Pump, Left	D10833	6052.5		600.0		5452.5	3/14/2023
12	AA442CW	Vac. Pump, Right	D10647	6052.5		600.0		5452.5	3/14/2023
13	ALV-9610	Alternator, Left	H-W091335	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
14	ALV-9610	Alternator, Right	H-W091336	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
15	466412-5	Turbo, Left	H-ZIL00019	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
16	466412-5	Turbo, Right	H-ZIL00018	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
17	470836-9020	Turbo control, left	BK0199	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
18	470836-9020	Turbo control, Right	ELR0103	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
19	470908-9012	Wastegate, Left	OKR0112	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
20	470908-9012	Wastegate, Right MAP popoff, Left	EK016184	7052.5	3/31/2035	1600.0	144 months 144 months	5452.5	3/14/2023
21	1020-1	MAP popoff, Left	CG0156	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
22	1020-2	MAP popoff, Right	H-YIO00132	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
23 24	646210-11A4	Fuel pump, Left	B00EA404R	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
	646210-11A5	Fuel pump, Right Throttle body, Left	D029922BR	7153.5	3/31/2035	1600.0	144 months 144 months	5553.5	11/14/2023
25	1697-2 1697.2	I hrottle body, Left	N/A	7052.5	3/31/2035	1600.0	144 months	5452.5 5452.5	3/14/2023
26		Throttle body, Right	N/A	7052.5	3/31/2035	1600.0	144 months		3/14/2023
27 28	640718-2A4 640718-2A4	Fuel Spider, Right	B139506CR	7052.5 7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
28 29	640718-2A4 642100-5/6	Fuel Spider, Left Fuel Press RegLH	C189513CR 225009	7052.5	3/31/2035 3/31/2035	1600.0 1600.0	144 months 144 months	5452.5 5452.5	3/14/2023 3/14/2023
	642100-5/6 642100-5/6	Fuel Press RegLH	497080	7052.5		1600.0	144 months	5452.5	3/14/2023
30					3/31/2035				3/14/2023
31	8000440 8000440	Oil Cooler, Left Oil Cooler, Right	1672104 4082828	7052.5 7052.5	3/31/2035 3/31/2035	1600.0 1600.0	144 months	5452.5 5452.5	3/14/2023
32	1638-4	Intercooler, Left	4082828	7052.5	3/31/2035	1600.0	144 months 144 months	5452.5	3/14/2023
33	1638-4	Intercooler, Left	1753759	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
35	24199LAA	Intercooler, Right	338	7052.5	3/31/2035	1600.0		5452.5	3/14/2023
35	24199LAA 24199LAA	Hyd. Pump, RH Hyd. Pump, LH	338 1717	7052.5		1600.0	144 months 144 months	5452.5	3/14/2023
30	24 199LAA 642085A4	Str. Adapter, LH	227090	7052.5	3/31/2035	1600.0	144 months	5452.5 5452.5	3/14/2023
37	642085A4 642085A4	Str. Adapter, LH	227090	7052.5	3/31/2035	1600.0	144 months	5452.5	3/14/2023
30	642085A4 646275-1	Starter, Left	Z28090 T-149957	7052.5	3/31/2035	1600.0		5452.5	3/14/2023
40	646275-1	Starter, Left Starter, Right	H050037	7052.5	3/31/2035	1600.0	144 months 144 months	5452.5	3/14/2023
40	040270-1	Starter, Right	1000037	1052.5	3/31/2035	1000.0	144 MONUNS	5452.5	3/14/2023

N414MP

## AD NOTES COMPLIANCE RECORD

Airframe - Cessna - 414A

s/n: 414A-0317

Appliance - Air Filter - Paper Induction

Appliance - Heaters - Kelly Aerospace Power Systems

Appliance - Safety Belts - AM Safe

Appliance - Transponder - GARMIN GTX 330

s/n: 84108536

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
72-03-07	Landing gear failure		DNA per serial #.	x			Ed Novak A+P 2832024 IA
76-13-07	Fork bolts		DNA per serial #.		x		Ed Novak A+P 2832024 IA
76-16-07	Engine attachment tangs		DNA per serial #.		x		Ed Novak A+P 2832024 IA
78-11-05	Autopilot actuator		DNA per serial #.	x			Ed Novak A+P 2832024 IA
78-13-05	Improperly installed seats		DNA per serial #.	x			Ed Novak A+P 2832024 IA
80-13-14	Fuel flow transducer		DNA per serial #.	x			Ed Novak A+P 2832024 IA
84-03-04	Windshield instln. insp.		DNA - windshields are not original factory installation.	x			Ed Novak A+P 2832024 IA
84-20-02	Nose landing gear	11/1/84 - 760.0	Installed SK421-121 per MEB84-10.	x			Ed Novak See log entry
85-13-03 R2	Engine mount beams		Superseded by 97-26-16.		x		Ed Novak A+P 2832024 IA
87-21-02 R1	Fuel filler openings	6/16/89 - 1271.0	Installed SAD531-037 fuel filler restrictors.	x			Ed Novak See log entry
90-02-13	Main landing gear	5/13/98 - 3902.1	Both MLG strut bearings replaced with new 5141109-1 units.		x		Ed Novak See log entry.
93-05-03	Fuel float valve		Superseded by 95-09-13.		x		Ed Novak A+P 2832024 IA
95-09-13	Fuel float valve	9/13/21 - 5233.6	Performed fuel inlet float valve test per MEB93-10R1.		x	5833.6	Ed Novak See log entry
97-01-13	Fuel, oil, or hydraulic hose		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
97-26-16	Engine mount beams	9/9/85 - 853.0	Installed kit # SK414-19B.	$\uparrow$	x		Ed Novak See log entry
98-04-28	Severe Icing Conditions	7/22/13 - 208.6	Inserted copy of AD into AFM.	x			Ed Novak See Log Entry
98-24-14	Exhaust leaks caused by nonwelded exhaust system components		DNA per date of mfg.	x			Ed Novak A+P 2832024 IA

Page 2	of 3		N414MP			-	09/13/2024
AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
2000-01-16	Detect and correct cracks and corrosion in the exhaust system	8/1/24 - 5650.9	Para. B next due 5700.9 Para. C due 03/25 Para. D due 5952.5 Para. E due 03/25 or 6097.8 Para. F - DNA all clamps are one piece design. Para. G due 03/35 or 7972.5		x	5700.9 (para B)	Ed Novak A+P 2832024 IA
PL2005-05-51	Detect and correct cracking in the wing spars before the cracks grow to failure		Superseded by PL2005-05-52.		x		Ed Novak A+P 2832024 IA
PL2005-05-52	Detect and correct cracking in the wing spars before the cracks grow to failure		Superseded by 2005-12-13.		x		Ed Novak A+P 2832024 IA
2005-12-13	Prevent wing spar cap failure caused by undetected fatigue cracks		Due at 15,000 hrs. ACTT.		x		Ed Novak A+P 2832024 IA
2005-20-25	Prevent failure of the avionics bus circuit breaker switch		Switch p/n 110-240 installed.	x			Ed Novak See log entry
2012-23-01	To prevent failure of the flap system		DNA - affected STC is not installed.	x			Ed Novak A+P 2832024 IA
2015-07-03	Engine Mount Beams		Due at 15,000 hrs.		x		Ed Novak A+P 2832024 IA
2016-07-24	Elevator Trim Tab Assembly Parts Attachment Hardware Security		Superseded by 2016-17-08.		x		Ed Novak A+P 2832024 IA
2016-17-08	Elevator Trim Tab Assembly Parts Attachment Hardware Security	8/1/24 - 5650.9 (ACTT)	Inspected hardware repetitively per AD instructions and noted no defects.		x	8/25 or 5760.9 (ACTT)	Ed Novak A+P 2832024 IA
2017-10-09	Engine Nacelle Fittings Integrity		DNA until SK402-47 is installed.		x		Ed Novak A+P 2832024 IA
2018-03-03	Lower Forward Carry Through Spar Cap Integrity		Superseded by revision R1		x		Ed Novak A+P 2832024 IA
2018-03-03 R1	Lower Forward Carry Through Spar Cap Integrity		Due at 15000 ACTT.		x	15000	Ed Novak A+P 2832024 IA
2023-09-09	Failures of Spot-Welded, Multi-Segment V-Band Couplings		DNA - the installed turbo tailpipe clamps are not segmented vee/spot welded type.		x		Ed Novak A+P 2832024 IA
84-26-02	Paper induction air filters	12/2/22 - 5452.5	New paper induction air filters installed.		x	5952.5	Ed Novak See log entry
82-07-03	Janitrol combustion heaters		Superseded by 96-20-07.		x		Ed Novak A+P 2832024 IA
96-20-07	Janitrol combustion heaters		Superseded by 2004-21-05.		x		Ed Novak A+P 2832024 IA
2001-08-01	Prevent fuel leakage in airplanes		Superseded by 2001-17-13.	x			Ed Novak A+P 2832024 IA
2001-17-13	Potential for fuel leakage in aircraft		Superseded by 2004-25-16.		x		Ed Novak A+P 2832024 IA
2004-21-05	Prevent combustion by-products (carbon-monoxide exhaust) and fuel leakage from the combustion heaters	3/1/24 - HH 630.5	Completed pressure decay test and airflow switch test to the cabin heater.		x	03/26 or HH 730.5	Ed Novak A+P 2832024 IA
2004-25-16	Prevent failure of the fuel regulator shutoff valve		Superseded by R1.		x		Ed Novak A+P 2832024 IA

of 3		N414MP				09/13/2024
Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
Prevent failure of the fuel regulator shutoff valve		Duplicate.		x		Ed Novak A+P 2832024 IA
Prevent failure of the fuel regulator shutoff valve	08/01/24 - 5650.9	Check heater fuel regulator/shutoff valve for proper operation.		x	08/25 or 5750.9	Ed Novak See log entry
AM Safe restraint system		DNA per part #.	X			Ed Novak A+P 2832024 IA
Prevent interrogating aircraft from possibly receiving inaccurate replies		Superseded by 2005-01-19.	x			Ed Novak A+P 2832024 IA
Prevent interrogating aircraft from possibly receiving inaccurate replies		DNA per software version installed.	X			Ed Novak A+P 2832024 IA
	Applicable S.B. # & Subject         Prevent failure of the fuel regulator shutoff valve         Prevent failure of the fuel regulator shutoff valve         AM Safe restraint system         Prevent interrogating aircraft from possibly receiving inaccurate replies         Prevent interrogating aircraft from possibly receiving	Applicable S.B. # & Subject       Date & Hours @ Comp.         Prevent failure of the fuel regulator shutoff valve       08/01/24 - 5650.9         AM Safe restraint system       08/01/24 - 5650.9         Prevent interrogating aircraft from possibly receiving inaccurate replies       Prevent interrogating aircraft from possibly receiving	Applicable S.B. # & SubjectDate & Hours @ Comp.Method of CompliancePrevent failure of the fuel regulator shutoff valveDuplicate.Prevent failure of the fuel regulator shutoff valve08/01/24 - 5650.9Check heater fuel regulator/shutoff valve for proper operation.AM Safe restraint systemDNA per part #.Prevent interrogating aircraft from possibly receiving inaccurate repliesSuperseded by 2005-01-19.Prevent interrogating aircraft from possibly receiving DNA per software version installed.	Applicable S.B. # & SubjectDate & Hours @ Comp.Method of ComplianceOf PicePrevent failure of the fuel regulator shutoff valveDuplicate.Duplicate.Image: Check heater fuel regulator/shutoff valve for proper operation.Image: Check heater fuel regulator/shutoff valve for proper 	Applicable S.B. # & SubjectDate & Hours @ Comp.Method of ComplianceOf PindRecruind PindPrevent failure of the fuel regulator shutoff valveDuplicate.XPrevent failure of the fuel regulator shutoff valve08/01/24 - 5650.9Check heater fuel regulator/shutoff valve for proper operation.XAM Safe restraint systemDNA per part #.XPrevent interrogating aircraft from possibly receiving inaccurate repliesSuperseded by 2005-01-19.XPrevent interrogating aircraft from possibly receiving DNA per software version installed.X	Applicable S.B. # & SubjectDate & Hours @ Comp.Method of Compliance0 o o o eRext Comp. @ Hrs/DatePrevent failure of the fuel regulator shutoff valveDuplicate.xxPrevent failure of the fuel regulator shutoff valve08/01/24 - 5650.9Check heater fuel regulator/shutoff valve for proper operation.xxAM Safe restraint systemDNA per part #.xxPrevent interrogating aircraft from possibly receiving inaccurate repliesSuperseded by 2005-01-19.xxPrevent interrogating aircraft from possibly receiving DNA per software version installed.xxx

# N414MP

# **PERFORMANCE CHARTS**

# WEIGHT & BALANCE

AFMS 1083

## LOG OF REVISIONS

Revision	Pages Affected	Description	Approval
·		Original Submittal	Sep. 25, 199
А	3	Added EGT limit for inconel exhaust systems. Updated EGT gage range markings.	
В	COVER,I, 4,7 & 9 3	Add Aircraft Registration and Serial Number blocks on cover page. Correct error in Sections 2,3 & 4, Maximum Takeoff Weight is 7105 pounds. Correcte EGT limit for coated inconel exhaust modified per STC SA09216SC to 1750 F, stainless steel and inconel are 1650F	Afre ( SEP 15 2000
			1
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Vertical bar denotes information that has been changed by the latest revision.

REVISION B FAA APPROVED REVISED: SEP 15 2000



AFMS 1083, Rev. B AIRPLANE FLIGHT MANUAL SUPPLEMENT FOR THE CESSNA MODEL 414A CHANCELLOR MODIFIED IN ACCORDANCE WITH STC SA09105SC

> Installation of RAM Series VII Engines, RAM Vortex Generators, and any of the following propeller models: Hartzell PHC-C3YF-2UF/FC7663DB-2Q Hartzell PHC-C3YF-2UF/FC7663DB-2Q McCauley 3AF32C93/82NC-6.0 to -7.0 McCauley 3AF32C505/82NEA-6.0 to -7.0 McCauley 3AF32C515/82NLA-4.0

This supplement is FAA approved and must be attached to the FAA-approved Airplane Flight Manual when the aircraft has been modified in accordance with STC SA09105SC. The information contained in this document supplements or supersedes the Airplane Flight Manual only in those areas listed herein. For limitations, procedures, and performance not contained in this supplement, consult the Airplane Flight Manual.

Approved Cox, Manage Special Certification Office

Date: SEP 2 5 1995

REVISION B FAA APPROVED REVISED: SEP 15 2000



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NOTE: For information not contained in this supplement, see the Airplane Flight Manual or the Information Manual for the Cessna Model 414A.

STC SA09105SC

AFMS 1083

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## **SECTION 1**

## ENGINES

Teledyne Continental Motors TSIO-520-NB modified by RAM Aircraft Corporation to increase takeoff power to 335 hp and maximum continuous power to 325 hp.

## PROPELLERS

The following propeller models are approved for installation in addition to the propeller models originally approved for the Cessna Model 414A:

McCauley Model 3AF32C515/82NLA -4.0 to -5.5
Hartzell PHC-C3YF-2UF/FC7663D-2Q
Hartzell PHC-C3YF-2UF/FC7663DB-2Q

## MAXIMUM CERTIFICATED WEIGHTS

## SPECIFIC LOADINGS

Wing Loading...... 31.47 lbs/ft<sup>2</sup> Power Loading...... 10.6 lbs/hp

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## **SECTION 2**

## AIRSPEED LIMITATIONS TABLE

SPEED	KIAS	KCAS	REMARKS
Maneuvering Speed V <sub>A</sub> (knots)	146	145	Do not make abrupt control movements above this speed.
Max. Flap Extended Speed V <sub>FE</sub> (knots) 15° 45°	177 146	175 145	Do not exceed this speed with the given flap setting.
Max. Gear Operating Speed V <sub>L0</sub> (knots)	177	175	Do not extend or retract landing gear above this speed.
Max. Gear Extended Speed V <sub>LE</sub> (knots)	177	175	Do not exceed this speed with landing gear extended
Air Minimum Control Speed V <sub>MCa</sub> (knots)	74	74	This is the minimum flight speed at which the airplane is directionally controllable with one engine inoperative and with a 5' bank towards the operative engine.
One Engine Inoperative Best Rate of Climb Speed V <sub>Yse</sub> (knots)	110	110	This speed delivers the greatest gain in altitude in the shortest possible time with one engine inoperative at sea level, standard day conditions, and 7105 lbs weight.
Never Exceed Speed V <sub>NE</sub> (knots)	237	232	Do not exceed this speed in any operation.
Max. Structural Cruising Speed V <sub>N0</sub> (knots)	203	200	Do not exceed this speed except in smooth air and then only with caution.

## AIRSPEED INDICATOR TABLE

MARKING	KIAS VALUE OR RANGE	SIGNIFICANCE					
Red Radial	74	Air minimum control speed.					
White Arc	69 to 146	Operating speed range with 45° wing flaps. Lower limit is maximum weight stalling speed in landing configuration. Upper limit is maximum speed permissible with wing flaps extended 45°.					
Green Arc	79 to 203	Normal operating range. Lower limit is maximum weight stalling speed with flaps and landing gear retracted. Upper limit is maximum structural cruising speed.					
Blue Radial	110	One engine inoperative best rate-of-climb speed at sea level standard day conditions and 7105 lbs weight.					
Yellow Arc	203 to 237	Caution range. Operations must be conducted with caution and only in smooth air.					
Red Radial	237	Maximum speed for all operations.					

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AFMS 1083 SECTION 2 - LIMITATIONS

## **ENGINE LIMITATIONS**

### Take-Off Power:

<ul> <li>Manifold Pressure</li> </ul>	. 38.0 in.Hg.
+Engine Speed	. 2700 rpm
+Fuel Flow	
Power Output	
Maximum Continuous Pov	ver:
<ul> <li>Manifold Pressure</li> </ul>	. 38.0 in.Hg.
•Engine Speed	. 2650 rpm
+Fuel Flow	.205 pph
Power Output	

#### Altitude Limit

Do not operate engine(s) at Takeoff Power or Maximum Continuous Power at altitudes above 25,000 feet. Maximum allowable manifold pressure above 25,000 feet is 33.0 inches Hg. Operating the engine(s) at a manifold pressure greater than 33.0 inches Hg when above 25,000 feet can result in a turbocharger overspeed condition.

#### Exhaust Gas Temperature Limits

- +1650°F engines equipped with stainless steel or uncoated inconel exhaust systems.
- I +1750°F engines equipped with coated inconel exhaust systems. STC SA09216SC

## ENGINE INSTRUMENT MARKINGS

Definition of Limit	Minimum Operating	Normal Operating Range	Preferred Operating Range	Maximum Operating
Marking Description	Red Radial	Green Arc	Wide Green Arc	Red Radial
Tachometer		2100 -2650 rpm	_	2700 rpm
Manifold Pressure Gage		15.0 -33.0 in.Hg		38.0 in.Hg
Cylinder Head Temp Gage	200°F	200°F -320°F 400°F -460°F	320°F -400°F	460°F
Oil Temp Gage	75⁰F	75⁰F -140⁰F 190⁰F -240²F	140ºF -190ºF	240°F
Exhaust Gas Temp Gage (stainless steel and inconel) (coated inconel per STC SA09216SC)		1350°F -1650°F 1350°F -1750°F		1650°F 1750°F



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AFMS 1083 SECTION 2 - LIMITATIONS

## **PROPELLER LIMITATIONS**

McCauley Model No. 3AF32C515/82NLA -4.0 to -5.5			
Diameter	78.0 to 76.5	inches	
Operating Limits	2700 rpm m	aximum speed	
Propeller Stop Limits			
		82.2° ± 0.3°	

Measured at propeller station 30.0 Inches

#### Hartzell Model No. PHC-C3YF-2UF/FC7663D-2Q and PHC-C3YF-2UF/FC7663DB-2Q

Diameter	76.0 inches		
Operating Limits	2700 rpm m	aximum speed	
Propeller Stop Limits	,	14.0° ± 0.5°	Measured at propeller
	Feather	84°	station 30.0 inches

## WEIGHT LIMITS

Maximum Ramp Weight	7140 lbs
Maximum Takeoff Weight	
Maximum Landing Weight	
Maximum Zero Fuel Weight	6515 lbs

\*NOTE: if an overweight landing occurs, an inspection of the aircraft as detailed in the Cessna 414A Maintenance Manual- Chapter 2, page 55, Hard or Overweight Landing Check- is required prior to flight.

## CENTER OF GRAVITY LIMITS (Gear Extended)

(see Section 6 for Weight & Center of Gravity Envelope)

## FLIGHT LOAD FACTOR LIMITS

At design Takeoff Weight of 7105 lbs:

Landing gear up, wing flaps 0° .....+3.5g to -1.4g
Landing gear down, wing flaps 45° .....+2.00g to 0.00g

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AFMS 1080 SECTION 2 - LIMITATIONS

## **REQUIRED PLACARDS**

#### A. OPERATIONAL LIMITS

On the Left Forward Side Panel:

Air Minimum Control Speed Maximum Gear Operating Speed Maximum Gear Extended Speed Maximum Flap Extended Speed, 15° Flaps Maximum Flap Extended Speed, 45° Flaps Maximum Maneuvering Speed

#### 74 KIAS 177 KIAS 177 KIAS 177 KIAS 177 KIAS 146 KIAS

NOTE THIS PLACARD IS PLACED OVER THE SPEEDS ON THE ORIGINAL PLACARD TO UPDATE AIR MINIMUM CONTROL AND MANEUVERING SPEEDS.

### B. PROPELLER LIMITATIONS

• On the Instrument Panel Near the Tachometer:

Airplanes equipped with McCauley Model 3AF32C515/82NLA Propellers ONLY

#### AT OR BELOW 7500 FT. MSL

AVOID CONTINUOUS OPERATION BETWEEN 2250 AND 2400 RPM ABOVE 32 IN. HG MANIFOLD PRESSURE <u>ABOVE 7500 FT. MSL</u> AVOID CONTINUOUS OPERATION BETWEEN 2250 AND 2400 RPM ABOVE 34 IN. HG MANIFOLD PRESSURE; AND BETWEEN 2450 AND 2650 RPM ABOVE 36 IN. HG

Airplanes equipped with McCauley Model 3AF32C93/82NC Propellers ONLY

AVOID CONTINUOUS OPERATION AT OR ABOVE 36.0 IN. HG MANIFOLD PRESSURE BETWEEN 2300 AND 2600 RPM

## C. ENGINE FUEL FLOW LIMITS

• On the Instrument Panel just Below or Near the Electronic Digital Fuel Flowmeter:

T.O. POWER FUEL FLOW 35.9-34.2 gph/ 210- 200 pph M.C. POWER FUEL FLOW 35.0-34.2 gph/ 205- 200 pph FOR ADDITIONAL INFORMATION SEE RAM ENGINE OP LIMIT TABLE: TSIO-520-NB; SERIES VII

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## **REQUIRED PLACARDS**

#### D. ELEVATOR TRIM LIMITS

•On the Trim Wheel Console in Plain View:

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NOSE DN

т 0

NOSE UΡ

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## **SECTION 3 EMERGENCY PROCEDURES**

## SINGLE-ENGINE AIRSPEEDS FOR SAFE OPERATION

CONDITIONS: - TAKEOFF WEIGHT 7105 lbs - STANDARD DAY, SEA LEVEL - LANDING WEIGHT 6750 lbs	
AIR MINIMUM CONTROL SPEED	
INTENTIONAL ONE ENGINE INOPERATIVE SPEED	
ONE ENGINE INOPERATIVE BEST ANGLE-OF-CLIMB SPEED	
ONE ENGINE INOPERATIVE BEST RATE-OF-CLIMB SPEED	_

## **ENGINE FAILURE DURING TAKEOFF**

(Speed Below 92 KIAS Or Gear Down)

1. Throttles	CLOSE IMMEDIATELY
2. Brake or Land-and-Brake	AS REQUIRED

NOTE: The distance required for the airplane to be accelerated from a standing start to 92 KIAS on the ground, and to decelerate to a stop with

heavy braking, is presented in the Accelerate Stop Distance chart in Section 5 for various combinations of conditions.

#### **ENGINE FAILURE AFTER TAKEOFF**

(Speed At Or Above 92 KIAS With Gear Up Or In Transit)

	1. Mixtures FULL RICH	
l	2. Propellers FULL FORWARD	
	3. Throttles FULL FORWARD	
l	4. Landing Gear CHECK UP	
1	5. Inoperative Engine:	
	a. Throttle CLOSE	
Į	b. Mixture IDLE CUT-OFF	
ľ	c. Propeller FEATHER	

6. Establish Best Performance Bank and Yaw ...... Bank wings 3\* toward operative engine and apply

rudder for a slip indication of 1/2-ball out-of-center toward operative engine.

7.	Climb To Clear 50-ft Obstacle	. 92 KIAS
8.	Single Engine Best Rate-of-Climb Speed	. 110 KIAS
9.	Trim Tabs	. ADJUST
10.	Cowl Flap	. CLOSED on inoperative engine.
11.	Inoperative Engine	SECURE
12.	As Soon As Practical	. LAND

### **ENGINE INOPERATIVE PROCEDURES**

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## SECTION 4 NORMAL PROCEDURES

#### **AIRSPEEDS FOR SAFE OPERATION**

CONDITIONS: - TAKEOFF WEIGHT 7105 lbs - LANDING WEIGHT 6750 lbs	L
AIR MINIMUM CONTROL SPEED	
TAKEOFF and CLIMB to 50 feet AGL ( 0° Wing Flaps)	92 KIAS
ALL ENGINES BEST ANGLE-of-CLIMB SPEED ( 0° Wing Flaps) .	88 KIAS
ALL ENGINES BEST RATE-of-CLIMB SPEED ( 0° Wing Flaps)	110 KIAS
ALL ENGINES LANDING APPROACH SPEED ( 45° Wing Flaps)	
NEVER EXCEED SPEED	237 KIAS
TRANSITION SPEED TO BALKED LANDING CONDITIONS	

## STARTING HOT ENGINES

1.	Propellers	CLEAR
-		

- 2. Throttles.....FULL OPEN
- 4. Auxiliary Fuel Pumps ......HIGH 30-90 seconds then OFF 5. Throttles......SET
- 6. Mixtures ......FULL RICH
- 7. Prime ......ONE(1) SECOND
- 8. Magneto Switches .....ON
- 9. Engines.....START
- 10. Auxiliary Fuel Pumps ......LOW

#### TAKEOFF

- Mixtures......FULL RICH
   Power.....SET TAKEOFF POWER
- 3. Fuel Flow......CHECK within range for takeoff power
- 4. Engine Instruments ......CHECK
- 6. Elevator Control......Raise nosewheel at 87 KIAS
- 7. Lift-Off......92 KIAS

ENGINE INLET AIR SYSTEM ICING EMERGENCY PROCEDURES (AIR INLET OR FILTER ICING) NOTE: See Cessna Model 414A Airplane Flight Manual for amplified procedure.

1. Alternate Air Control(s)	PULL OUT
	INCREASE (2650 rpm for normal cruise)
3. Mixtures(s)	LEAN as required

4. Pressurization Air Control(s) .....PULL LH and/or RH as necessary

- a. With Both Pressurization Air Sources Dumped:
  - (1) Cabin Vent Control ......PULL
  - (2) Cabin Pressurization Switch...DEPRESSURIZE
- b. Above 10,000 ft with Both Pressurization Air Sources Dumped:
  - (1) If Supplementary Oxygen is Not Available .. EMERGENCY DESCENT to 10,000 ft
  - (2) If Supplementary Oxygen is Available:
    - (a) Oxygen Knob.....PULL ON
    - (b) Assure each occupant is using oxygen.
    - (c) Descend as soon as practical to 10,000 ft.

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AFMS 1083 SECTION 4 - NORMAL PROCEDURES

CALITION

## **AFTER TAKEOFF**

Refer to Section 5 for speed at reduced weight.

NORMAL CLIMB 1. Power	REFER TO RAM ENGINE OP LIMITS TABLE: TSIO-520-NB, SERIES VII FOR RECOMMENDED POWER SETTINGS INCLUDING FUEL
2. Fuel Flow	CHECK & SET
4. Cowi Flaps	OPEN
5. Pressurization	SET

## MAXIMUM CLIMB

1. P	Power	SET M C	ABOVE 25,000 FEET MAX ALLOWABLE
2.	Fuel Flow	CHECK	
З.	Airspeed	.110 KIAS	
Δ	Cowl Flaps	ODEN	
5.	Pressurization	SFT	

## CRUISE

1. 2.	PowerSET Fuel FlowSET	NOTE REFER TO RAM ENGINE OP LIMITS TABLE: TSIO-520-NB, SERIES VII FOR RECOMMENDED POWER SETTINGS INCLUDING FUEL
	Cowl FlapsCLOS	
4.	PropellersSYNC	
5.	SynchrophaserON &	SET
6.	Aux Fuel PumpsAS RI	EQ'D
7.	PressurizationCHEC	Ж

## EXHAUST GAS TEMPERATURE GAGE OPERATION

Refer to system manufacturer's instructions for proper operation.

## DIGITAL FUEL FLOW METER OPERATION

Refer to system manufacturer's instructions for proper operation.

## NOISE ABATEMENT

The flyover noise level, established in compliance with FAR 36 Appendix G at maximum continuous power is 84.5 dB(A).

No determination has been made by the Federal Aviation Administration that the noise level of this airplane is, or should be acceptable or unacceptable, for operation at, into, or out of any airport.

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## SECTION 5 PERFORMANCE

## STALL SPEEDS

CONDITIONS: Throttles - ZERO THRUST at 1.1Vs1

#### NOTE:

- 1. Maximum altitude loss during a conventional stall is approximately 450 feet.
- Maximum nose down pitch attitude and altitude loss during recovery from an engine inoperative stall is approximately 15° below the horizon and 300 feet, respectively.

WEIGHT	CONFIG	URATION	ANGLE OF BANK										
lbs			0°		2	:0°	40°		60°				
	FLAPS	GEAR	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS	KIAS	KCAS			
7105	0°	Up	79	80	82	83	91	91	113	113			
	15°	Down	74	75	76	77	85	86	107	106			
	45°	Down	69	70	71	72	80	80	100	99			
6750	0°	Up	77	78	79	80	89	89	110	110			
	15°	Down	72	73	74	75	83	84	103	103			
	45°	Down	67	68	69	70	78	78	97	96			
6200	0°	Up	75	75	76	77	85	85	106	106			
	15"	Down	69	70	71	72	79	80	99	99			
	45°	Down	64	65	66	67	75	75	93	92			
5700	0°	Up	72	72	74	74	81	82	101	101			
	15°	Down	66	67	68	69	76	77	94	95			
	45°	Down	62	63	64	65	71	72	89	89			
5200	0°	Up	68	68	71	71	77	78	97	97			
	15°	Down	63	64	65	66	72	73	90	91			
	45°	Down	59	60	61	62	67	68	85	85			



AFMS 1083 SECTION 5 - PERFORMANCE

## NORMAL TAKEOFF DISTANCE

CONDITIONS: 1. MANIFOLD PREBSURE and ENGINE SPEED - SET MAX TAKEOFF POWER 2. FUEL FLOWS - WITHIN RANGE FOR TAKEOFF POWER 3. WING FLAF POSITION - UP 4. COWL FLAF POSITION - OPEN 6. LEVEL- DRY- HARD BURFACED RUNWAY

NOTES: 1. TOTAL DISTANCE IS DISTANCE TO 50 & ABOVE GROUND LEVEL 2. DISTANCES APPLY FROM POINT WHERE TAKEOFF POWER IS SET 3. DECREASE DISTANCE 7% FOR EACH 10 KNOTS OF HEADWIND. 4. INCREASE DISTANCE <u>5%</u> FOR EACH <u>2 KNOTS</u> OF TAILWIND.

WEIGHT	TEMP	RATURE	-20 0	; (-4°F)	-10 <sup>H</sup> C	(14 <sup>50</sup> F)	0ºC	(32 <sup>0</sup> F)	10 <sup>0</sup> C	(50 <sup>m</sup> F)	20"C	(68°F)	30 <sup>0</sup> C	(86 <sup>°°</sup> F)	40 <sup>#1</sup> C (	(104°F)	80°C	(122"F)
	SPEED AT 50 ft AGL	PRESSURE ALTITUDE feet	GRND ROLL DIST. feet	TOTAL DIST. feet	GRND ROLL DIST, feet	TOTAL DIST. feat	GRND ROLL DIST. feet	TOTAL DIST. feet	GRND ROLL DIST. feet	TOTAL DIST. feat	GRND ROLL DIST. feet	TOTAL DIST. feet	GRND ROLL DIST. feet	TOTAL DIST.	GRND ROLL DIST. feet	TOTAL DIST.	GRND ROLL DIST, feet	TOTAL DIST.
7105	92	sea-level	1297	1707	1422	1862	1555	2035	1696	2218	1904	2482	2087	2720	2286	2984	2526	3302
pounds	KIAS	1000	1380	1798	1505	1962	1646	2145	1846	2391	2020	2619	2212	2875	2428	3158	2687	3497
		2000	1463	1898	1596	2072	1788	2309	1954	2528	2137	2765		3039	2577	3340	2857	3702
		3000	1546	2008	1738	2236	1896	2446	2079	2674	2270	2930		3212	2735	3541	3025	3935
		4000	1679	2163	1837	2364	2012	2583	2203	2829	2411	3103		3404	2910	3760	3219	4187
		5000	1788	2282	1954	2501	2137	2729	2345	2993	2569	3285	2818	3614	3101	3988	3440	
		6000	1896	2418	2079	2647	2270	2893	2494	3176	2735	3486		3842		4244	3678	4726
		7000	2012	2555	2203	2802	2419	3066	2652	3368	2910	3705	3201	4079		4517	3933	5043
		8000	2145	2710	2353	2966	2577	3258	2827	3577	3109	3933		4344		4810	4204	5368
		9000	2278	2875	2503	3149	2752	3459	3018	3806	3317	4189		4627		5138	4481	5751
		10000	2436	3057	2669	3349	2935	3678	3226	4052	3550	4463		4937	1	5485	4822	6142
6750	92	seu-level	1225	1587	1343	1731	1468	1892	1602	2062	1798	2308	1971	2529	2159		2385	3070
pounds	KIAS	1000	1303	1672	1421	1824	1555	1994	1743	2223	1908	2435		2673		2936	2538	3252
		2000	1382	1765	1508	1926	1688	2147	1845	2350	2018	2571		2826		3106	2698	3442
		3000	1461	1867	1641	2079	1790	2274	1963	2486	2144	2724	2356	2987	2583	3292	2857	3659
		4000	1586	2011	1735	2198	1900	2401	2081	2630	2277	2885		3165	2748	3496	3040	3893
		5000	1688	2121	1845	2325	2018	2537	2214	2783	2426	3055		3360	2929	3708	3249	4126
		6000	1790	2249	1963	2461	2144	2690	2356	2953	2583	3241	2835	3572	3125	3946		4394
		7000	1900	2376	2081	2605	2285	2851	2505	3131	2748	3445	3023	3793		4200	3714	4689
		8000	2026	2520	2222	2758	2434	3029	2870	3326	2937	3657	3227	4039		4472	3970	4991
		9000	2152	2673	2364	2927	2599	3216	2850	3538	3133	3895	3455	4302	3808	4777	4232	5348
		10000	2301	2843	2521	3114	2772	3420	3047	3768	3353	4149	3691	4591	4083	5100	4554	5711
6200	92	sea-level	1139	1433	1246	1563	1362	1702	1486	1851	1620	2019	1771	2205	1985	2475	2241	2798
ounds	KIAS	1000	1210	1516	1317	1647	1442	1795	1575	1954	1718	2140	1922	2382	2109	2614	2334	2893
		2000	1282	1600	1397	1740	1531	1898	1673	2065	1869	2307	2038	2521	2234	2763	2469	3053
		3000	1362	1684	1486	1842.	1620	2000	1816	2233	1985	2437	2172	2661	2376	2921	2622	3234
		4000	1442	1777	1575	1944	1762	2158	1922	2354	2100	2577	2305	2819	2528	3098	2795	3433
		5000	1531	1888	1709	2093	1869	2279	2047	2493	2234	2726	2447	2986	2688	3284	2976	3641
		6000	1664	2028	1816	2214	1985	2409	2172	2642	2376	2893	2608	3172	2866	3489	3175	3868
		7000	1762	2140	1931	2344	2109	2558	2314	2800	2536	3070	2777	3368	3053	3712	3384	4125
		8000	1878	2270	2056	2484	2252	2716	2465	2968	2706	3256	2964	3582	3257	3944	3610	4380
		9000	2002	2409	2189	2633	2394	2884	2625	3154	2884	3461	3168	3805	3489	4205	3873	4685
- 1		10000	2127	2549	2332	2791	2554	3061	2803	3358	3079	3684	3382	4056	3729		4145	

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AFMS 1083 SECTION 5 - PERFORMANCE

## ACCELERATE STOP DISTANCE

CONDITIONS: 1. MANIFOLD PRESSURE and ENGINE SPEED - MAX TAKEOFF POWER 2. FUEL FLOWS - WITHIN RANGE FOR TAKEOFF POWER 3. WING FLAP POSITION - UP 4. COWLFLAP POSITION - OPEN 4. COWLFLAP POSITION - OPEN 6. LEVIEL-DRY-HARD BURFACED RUMWAY 6. ENGINE FALURE AT ENGINE FALURE SPEED

NOTE: 1. DISTANCES APPLY FROM POINT WHERE TAKEOFF POWER IS SET 2. DECREASE DISTANCE <u>3%</u> FOR EACH <u>4 KNOTS</u> HEADWIND 3. INCREASE DISTANCE <u>5%</u> FOR EACH <u>4 KNOTS</u> TAILWIND

		TEMPERATURE	-20°C (-4°F)	-10°C (14°F)	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C(104°F)	50°C (12
WEIGHT	ENGINE FAILURE SPEED	PRESSURE ALTITUDE feet			TOTAL	DISTANCI	E TO STO	P - FEET		
7105	92	sea-level	3132	3338	3552	3873	4127	4395	4643	4890
pounds	KIAS	1000	3283	3496	3811	4056	4324	4564	4895	5226
		2000	3441	3740	3985	4253	4500	4801	5133	5464
1		3000	3607	3914	4182	4421	4722	5046	5409	5772
		4000	3859	4112	4358	4643	4967	5307	5686	6065
		5000	4041	4287	4580	4896	5235	5591	6002	6413
		6000	4224	4501	4817	5141	5504	5907	6334	6760
		7000	4437	4738	5070	5418	5805	6223	6674	7125
1		8000	4659	4991	5339	5718	6129	6571	7069	7566
		9000	4912	5252	5631	6026	6461	6935	7472	8009
		10000	5173	5544	5940	6366	6825	7346	7922	8499
6750	92	sea-level	2950	3143	3344	3607	3843	4088	4360	4631
pounds	KIAS	1000	3090	3292	3554	3782	4027	4290	4587	4885
		2000	3239	3493	3721	3966	4228	4509	4815	5121
		3000	3397	3659	3904	4158	4438	4736	5069	5401
		4000	3607	3843	4097	4368	4666	4981	5331	5682
		5000	3782	4036	4307	4596	4911	5244	5620	5997
		6000	3975	4237	4526	4832	5165	5533	5927	6321
		7000	4176	4456	4762	5086	5445	5830	6251	6671
		8000	4386	4692	5016	5366	5743	6154	6610	7065
		9000	4622	4937	5288	5655	6058	6496	6986	7476
		10000	4867	5209	5577	5971	6399	6872	7397	7923
6200	92	sea-level	2668	2838	3020	3203	3413	3624	3922	4219
pounds	KIAS	1000	2790	2972	3164	3366	3576	3864	4113	4363
		2000	2924	3116	3318	3529	3807	4056	4324	4593
		3000	3068	3270	3481	3749	3998	4257	4545	4833
		4000	3222	3433	3692	3941	4200	4478	4785	5091
		5000	3385	3644	3883	4133	4411	4708	5034	5360
		6000	3586	3826	4075	4353	4641	4957	5302	5648
		7000	3768	4018	4286	4574	4890	5226	5600	5974
		8000	3960	4228	4516	4823	5149	5513	5906	6300
		9000	4171	4449	4756	5082	5437	5820	6242	6664
		10000	4391	4689	5015	5360	5743	6146	6597	7047



AFMS 1083 SECTION 5 - PERFORMANCE

## ACCELERATE GO DISTANCE

CONDITIONS: 1. MANIFOLD PRESBURE #nd ENGINE SPEED - SET MAX TAKEOFF POWER 2. FUEL FLOWS - WITTIN RANGE FOR TAKEOFF POWER 3. WING FLAP POSITION - UP 4. COWLFLAP POSITION - OPEN 5. LEVEL, DRY- HARD SURFACED RUNWAY 6. ENGINE FAULRE AT ENGINE FAILURE SPEED 7. PROCEDURE: 1. PROFELE FRATHERED DURING CLIMB - PROFELE FRATHERED DURING CLIMB - MAINTAIN ENGINE FAILURE SPEED

NOTES: I. DISTANCES APPLY FROM POINT WHERE TAKEOFF POWER IS SET 2. DECREASE DISTANCE <u>5%</u> FOR EACH <u>10 XNOTS</u> OF HEADWIND. 3. INCREASE DISTANCE <u>5%</u> FOR EACH <u>300T CF TAILWIND.</u> 4. DISTANCES SHOWN *INTRALCS PRINT* REFRESENT CLIMB RATES LESS THAN SO FT/MIN. 5. EMPTY CELLS IN TABLE INDICATE SUSTAINED FLIGHT IS NOT POSSIBLE.

		TEMPERATURE	-20" C (-4" F)	-10" C (14" F)	0" C (32" F)	10" C (50" F)	20" C (68" F)	30" C (86" F)	40° C (104" F)	60" C (122
WEIGHT	ENGINE FAILURE SPEED	PRESSURE ALTITUDE feet		TOTAL	DISTANCE	TO CLEAR	50-FOOT O	BSTACLE -	- FEET	
7105	92	sea-level	2212	2463	2761	3127	3673	4316	5259	6823
pounds	KIAS	1000	2333	2604	2929	3398	3916	4632	5787	7636
- d		2000	2466	2764	3167	3618	4185	5042	6442	
		3000	2614	2982	3368	3842	4513	5508	7271	
		4000	2824	3170	3571	4117	4886	6080	8342	<u></u>
		5000	2992	3346	3820	4433	5319	6765		
		6000	3148	3557	4083	4794	5824	7647		_
		7000	3356	3805	4386	5202	6439	-	- 1	-
		8000	3580	4076	4742	5670	7202			
		9000	3818	4374	5132	6235	-	-		
		10000	4089	4712	5588	6918	-		- 1	
6750	92	sea-level	1958	2170	2420	2722	3146	3652	4386	5631
pounds	KIAS	1000	2064	2291	2563	2934	3350	3924	4786	6213
		2000	2178	2427	2752	3115	3584	4242	5270	6929
		3000	2306	2601	2919	3320	3849	4605	5875	7860
		4000	2473	2760	3108	3546	4144	5036	6639	9066
		5000	2616	2926	3312	3803	4484	5550	7683	
		6000	2768	3108	3531	4091	4877	6193	9202	-
		7000	2941	3312	3781	4416	5346	7017		
		8000	3130	3539	4068	4786	5913	8144	-	
		9000	3335	3788	4386	5225	6616	9823	- 1	
		10000	3562	4068	4749	5747	7539	-	- 1	
6200	92	sea-level	1565	1716	1890	2095	2329	2624	3032	3785
pounds	KIAS	1000	1648	1807	1996	2216	2473	2828	3236	4009
		2000	1732	1906	2110	2337	2654	3002	3456	4300
		3000	1830	2011	2223	2510	2820	3206	3713	4641
		4000	1928	2125	2389	2662	2994	3418	4000	5041
		5000	2034	2276	2526	2828	3191	3667	4325	5481
- 9		6000	2178	2412	2677	3002	3410	3940	4703	6014
		7000	2299	2548	2843	3199	3652	3977	5149	6954
		8000	2435	2707	3025	3418	3917	4613	5686	7436
		9000	2586	2881	3229	3660	4227	5028	6359	8459
		10000	2745	3070	3448	3932	4575	5520	7229	

STC SA09105SC

AFMS 1083 SECTION 5 - PERFORMANCE

Climb Speed KIAS

110

109

106

Altitude

ft

sea-level

20,000

30,000

### RATE-OF-CLIMB - MAXIMUM CLIMB

CONDITIONS: 1. MANIFOLD PRESSURE AND ENGINE SPEED - SET MAX CONTINUOUS POWER 2. FUEL FLOWS - WITHIN RANGE FOR MAX CONTINUOUS POWER 3. LANDING GEAR - UP 4. WING FLAPS - UP 5. COWL FLAPS - OPEN

NOTE: - ABOVE 25,000 FEET, SET NORMAL CLIMB POWER.

- EMPTY CELLS IN TABLE INDICATE RATE-OF-CLIMB IS LESS THAN 100 FEET / MINUTE.

	Temperature	-30°C (-22°F)	-20°C (-4° F)	-10"C (14"F)	0°C (32°F)	10°C (50°F)	20"C (68"F)	30°C (86°F)	40"C (104"F)	50°C (122"F)	60°C		
Weight	Pressure Altitude feet		RATE-OF-CLIMB feet/minute										
7105	sea-level	2198	2045	1906	1763	1624	1486	1347	1229	1090	9		
pounds	4000	1990	1857	1709	1575	1436	1308	1179	1041	922	7		
	8000	1793	1659	1525	1387	1248	1120	991	868	744	6		
	12000	1610	1466	1337	1199	1065	937	808	684	566	4		
	16000	1392	1263	1135	1006	882	764	645	536	412	2		
	20000	1159	1036	907	788	670	556	447	338	239	1		
	24000	719	610	506	412	318	224	130	×`				
	28000	289	200	111	~	- /		-					
6500	sea-level	2371	2211	2071	1926	1786	1646	1506	1386	1248	11		
pounds	4000	2161	2021	1871	1736	1596	1466	1336	1196	1078	9		
3	8000	1961	1821	1686	1546	1406	1276	1146	1021	896	7		
	12000	1776	1626	1496	1356	1221	1091	981	836	691	5		
	16000	1561	1421	1291	1161	1036	916	771	661	536	4		
1	20000	1326	1191	1061	941	796	681	571	461	361	2		
- 1	24000	856	746	641	546	451	356	261	171	-			
	28000	431	341	251	161								
6000	sea-level	2577	2427	2287	2137	1992	1852	1712	1577	1432	12		
pounds	4000	2397	2242	2092	1942	1812	1647	1522	1377	1257	11		
	8000	2177	2017	1892	1762	1617	1482	1327	1182	1047	9		
	12000	1987	1827	1702	1557	1407	1267	1122	982	842	7		
	16000	1772	1827	1497	1332	1212	1072	897	807	687	5		
	20000	1502	1387	1232	1092	962	832	722	617	497	3		
	24000	1022	902	797	692	582	482	385	287	197	.		
	28000	567	492	407	337	252	177	-	-				
5500	sea-level	2834	2684	2534	2384	2229	2084	1944	1789	1644	14		
pounds	4000	2674	2499	2334	2184	2034	1879	1754	1594	1474	12		
	8000	2409	2259	2134	1984	1849	1704	1539	1399	1239	11		
	12000	2234	2064	1939	1784	1634	1484	1329	1179	1029	8		
	16000	1999	1879	1729	1559	1424	1264	1124	984	849	7		
	20000	1734	1614	1444	1274	1159	1029	899	784	659	5		
	24000	1219	1094	974	859	744	634	529	429	334	23		
	28000	754	674	594	514	434	354	274	194	114	.		



FAA APPROVED September 25, 1995



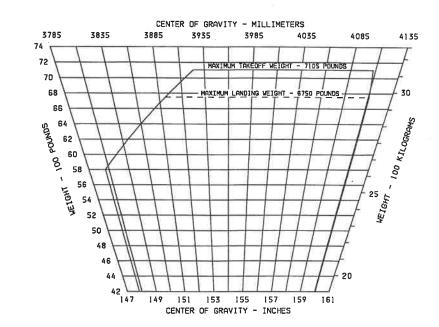
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AFMS 1083 SECTION 5 - PERFORMANCE STC SA09105SC

AFMS 1083

## **SECTION 6** WEIGHT AND BALANCE

## WEIGHT & CENTER-OF-GRAVITY ENVELOPE



## **RATE-OF-CLIMB - ONE ENGINE INOPERATIVE**

September 25, 1995

- CONDITIONS: 1. MAN. PRES. AND ENG. SPEED SET MAX CONT POWER 2. MIXTURE-WITHIN RANGS FOR MAX CONT POWER 3. LANDING GEAR-JP 4. MING FLAR-BUP 6. MINGS BARGED 3'TOWRED OPENATIVE ENGINE 6. MINGS BARGED 3'TOWRED OPENATIVE ENGINE MITH APPROXIMATELY 1/2 BALL SLIP INDICATED ON MOPERATIVE ENGINE.

SUBTRACT VALUES LISTED BELOW FROM THE VALUE OBTAINED IN THE TABLE. EFFECTS FOR A COMBINATION OF GEAR, FLAP, OR WINDMILLING PROPELLER MAY BE OBTAINED BY ADDING THE EFFECTS OF EACH. INOPERATIVE ENGINE WINDMILLING GEAR DOWN FLAPS DOWN 15° FLAPS DOWN 45° 400 FT/MIN 350 FT/MIN 200 FT/MIN 800 FT/MIN

Weight Ibs 7087 6750	Climi	Climb Speed - KIAS								
lbs	Sea-level	10,000	20,000							
7087	110	110	105							
6750	108	105	103							
6250	105	103	101							
5750	102	101	100							

NOTE: APPROXIMATE EFFECT OF CONFIGURATION ON BINGLE-ENGINE RATE-OF-CLIMB

WEIGHT	PRESSURE ALTITUDE feet	_			RA	re-of-cli	MB feet/mi	nute			
7105	sea-level	558	498	434	405	355	312	257	207	152	131
pounds	4000	460	415	358	310	272	225	179	129	86	51.
	8000	370	332	282	225	189	139	109	54	16	-34
	12000	292	249	192	161	126	74	31	-15	-64	-102
	160D0	204	159	134	71	53	0	-44	-99	-139	-170
	20000	143	89	51	0	-29	-67	-112	-147	-185	-225
	24000	-22	-74	-107	-142	-175	-224	-243	-283	-318	-358
6750	sea-level	631	571	521	471	421	371	316	266	211	161
pounds	4000	531	481	431	376	331	281	231	181	131	81
	8000	436	391	341	291	241	191	146	91	46	-4
	12000	351	301	251	206	156	111	61	11	-34	-79
	16000	256	211	171	116	76	31	-14	-69	-109	-154
	20000	166	126	81	41	0	-44	-89	-124	-169	-209
	24000	0	-44	-84	-119	-159	-204	-231	-274	-309	-349
6500	sea-level	683	623	583	518	468	413	358	308	253	183
pounds	4000	593	528	483	423	373	313	268	218	163	103
	8000	483	433	383	338	278	228	173	118	75	18
	12000	393	338	293	238	178	138	83	38	-12	-62
	16000	293	248	198	148	93	58	0	-47	-90	-142
	20000	183	153	103	68	23	-27	-72	-107	-157	-197
	24000	18	-22	-67	-102	-147	-189	-222	-267	-302	-342
6000	sea-level	818	748	718	658	598	538	473	408	338	263
pounds	4000	723	658	608	548	498	418	363	298	243	168
	8000	608	558	508	448	378	308	248	183	138	78
	12000	518	448	398	338	253	198	148	98	38	-17
	16000	388	348	278	238	163	118	58	0	-47	-102
	20000	258	218	163	133	63	28	-32	-67	-122	-162
	24000	68	28	-17	-57	-117	-152	-197	-242	-272	-312
5500	sea-level	983	938	883	823	753	683	608	513	433	343
pounds	4000	883	833	758	693	643	533	483	403	323	248
	8000	758	713	653	583	493	403	333	263	203	158
	12000	663	583	513	458	343	278	213	163	103	58
	16000	503	463	373	343	233	193	113	73	0	-57
	20000 24000	358	323	243	203	133	93	23	-17	-77	-117
	24000	148	98	43	0	-67	-107	-167	-207	-237	-277

AIRCRAFT CORPORATION

FAA APPROVED September 25, 1995



## Weight and Balance Report

Shoreline Aviation, Inc.	Make	Cessna <sup>*</sup>	Model	414A
93 Old Colony Lane Marshfield, MA 02050	Serial#	414A-0317	Reg.#	N414MP
781-837-8521	Date of s	cale calibration:		8/21/21
	Aircraft	7140.00		

	Aircraft as Weighed										
Weight Point	Scale Reading	Tare	Net Weight	Arm	Moment						
Left	2,251.00	0.00	2,251.00	171.77	386,654.27						
Right	2,278.00	0.00	2,278.00	171.77	391,292.06						
Nose	643.00	0.00	643.00	46.66	30,002.38						
Total As Weighed	1		5,172.00	156.22	807,948.71						

Weight Adjustments									
Description	Weight	Arm	Moment						
Drainable Unuseable Fuel	52.00	165.20	8,590.40						
Total Corrected Empty Weight	5,224.00	156.31	816,539.05						

Maximum Ramp Weight 7140.00 lbs. Maximum T/O weight 7105.00

			<b>Corrected Empty Weight:</b>	5,224.00
			Center of Gravity:	156.31
			Useful Load:	1,916
adward AMoule /	Edward J. Novak Jr.	D.O.M.	A+P 2832024 IA	6/2/22
Authorized Signatu	ITE	Title	Cert. Number	Date







RAM AIRCRAFT, LP

- SINCE 1976 -

## Aircraft Registration \_\_\_\_\_ Engine Position \_\_\_\_\_ Engine Serial No. \_\_\_\_\_

7505 Karl May Dr. ( P.O. Box 5219 / Waco Regional Airport / Waco, X 76708 / Phone: (254) 752-8381 / Fax: (254) 752-3307 / www.tamaircraft.com

CIRRUS AIRCRA

BEECHCRAF

OR CESSNA.



## ENGINE MAINTENANCE RECORDS

Log No. \_\_\_\_\_

Aircraft Registration No
Engine Manufacturer Continental
Model 7510-520-ND
Serial No. 314067
Date installed on aircraft
Time Between Overhauls (TBO)Hours

If used on multi-engine aircraft:

🗌 Right

🔀 Left

Waco Regional Airport 7505 Karl May Drive • P.O. Box 5219 • Waco, Texas 76708 Phone: (254) 752-8381 Fax: 254-752-3307 www.ramaircraft.com

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATION NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
	Total	Total		RAM Aircraft, Limited Partnership • Waco Regional Airport
Date	Total Time In Service	Total Time Since Overhaul	Recording Meter Time	RAM Aircraft, Limited Partnership • Waco Regional Airport

Page No.

## CONTINENTAL TSIO-520-NB Series VII 414A Left Engine S/N 514067

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/CMI SM X-30574 and Continental M-0, Standard Practice Maintenance Manual. Applicable AD's and Service Bulletins C/W at this time. All gears cleaned, polished when required, inspected, magnetic particle inspected, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. P dated 07/19/2017. Above referenced engine modified to TSIO-520-NB 335 HP per STC SE09104SC-D (includes STC SE4327SW-D). Installed new RAM camshaft p/n 1058-20, s/n XI 21078 per STC SE09104SC-D. Installed new lifters p/n SA628488 (int), p/n SA646277 (exh). AD 10-11-04 n/a to lifter p/n installed. AD 97-26-17 c/w per installation of overhauled VAR crankshaft p/n 642396, s/n F462 per TCM CSB96-8. C/W ultrasonic inspection per MSB96-10B, due at next overhaul or when crankshaft removed. AD 99-19-01 n/a per crankshaft date of manufacture I/A/W TCM MSB99-3C. AD 2000-23-21 N/A to crankshaft serial number/date of manufacture I/A/W TCM Mandatory Service Bulletin MSB00-5D. Engine assembled with new RAM crankcase p/n 2922-1, s/n 21K0397. Installed new Superior steel cylinders. Installed overhauled oil cooler p/n 654580, s/n 1672104. C/W AD 89-24-01 R1 per installation of starter adapter p/n 642085A4 with current scavenge pump gears. AD 2012-10-13 AND MSB11-4B Starter Adapter inspection N/A per p/n installed or manufacture date. Installed new RAM/FAA/PMA fuel nozzles p/n 2562-14D. TCM Service Bulletin SB06-1A N/A per installation of RAM fuel nozzles. Installed modified connecting rods p/n 1162 per STC SE4327SW-D as FAA/PMA approved replacement. Engine accessories exchanged for overhauled or new units with exception of prop governor, alternator, vacuum pump, hydraulic pump and tach generator which were not installed per this work order. New Kelly pressurized magnetos p/n ES6320 installed per STC SE4651SW-D and pressurized. MSB94-8D on magneto timing procedure c/w per timing to STC degree requirements with TDC locator and protractor with pointer. Engine modified to TSIO-520- NB per Continental Service Bulletin M75-6 Rev 1. P/N 652130 & 652131 rocker arms installed. Installed RAM/FAA/PMA oil cooler baffie p/n 1253-1, rocker arm cover gaskets p/n 1387-1, spring loaded induction clamps p/n 1170-2 and double clamp p/n 1170-5. Category 1 thru 3 CMI Service Bulletin Compliance Listing in RAM Manual. Engine ground run on test stand per RAM specifications for 120 minutes. Engine run-in with Aeroshell 100 Mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. Engine approved for return to service for the work performed. Engine preserved per Continental M-0, Standard Practice Maintenance Manual temp. storage up to 90 days. Pertinent details on file under Project No 10271.

RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco Texas 76708 CRS VA1R551K

SUB-TOTALS this page

TOTALS—Carry forward to next page



Shoreline Aviation, Inc.

Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Manchfield, MA 02050

#### 3/14/2023 N414MP

Cessna 414A, serial # 414A-0317

Engine 1 Logbook

Engine 1 Logbook

Hobbs Hours: 1629.9 :: Aircraft TT: 5452.5 :: #1 Engine TT: 4692.5 :: #1 Engine TSMOH: 0.0

1) This engine installed onto the right side of Cessna 414A, N414MP, serial # 414A-0317 using all new engine mounts per Ram and Cessna 414A maintenance manual instructions.

2) All accessories and oil and fuel hoses were provided by RAM and installed except for vac. pump, tach gen, hydraulic pumps, prop, prop gov and alternator. Prop gov was O/H and reinstalled from the previous engine. A new vacuum pump was installed. A new alternator was installed reusing the existing alternator drive coupling from the previous engine. Tach gen was reinstalled from the previous engine in "as removed" condition. Lending gear hydraulic pump was replaced with an O/H unit. Propeller was reinstalled from the previous engine in "as removed" condition after flushing the oil cylinder.

3) Engine was serviced with 12 qts. of Phillips Type M 20w-50 mineral oil and pre-oiled per RAM instructions. Engine was also turned by hand until oil pressure was read on the cockpit gage.

4) Set (die speed, idle mixture, fow unmetered fuel pump pressure, high unmetered fuel pump pressure & maximum MAP at full power. 5) Ground runup and systems functional checks completed with satisfactory results and no fuel or oil leaks noted.

The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.

Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521

Signed Edward M

Edward J. Novak Jr. A+P 2832024 JA



Shoreline Aviation, Inc. Marshfield Municipal Airport George Harlow Field (GHG)

93 Old Colony Lane Marshfield, MA 82050

5/10/2023

## N414MP

### Cessna 414A, serial # 414A-0317

Hobbs Hours: 1658.2 :: Aircraft TT: 5480.8 :: #1 Engine TSMOH: 28.3 :: #1Propeller SMOH: 653.9 :: #2 Propeller SMOH: 653.9 :: #2 Engine TSMOH: 28.3 :: Heater Hobbs: 612.5

Completed Operation #3 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form.

1) Cyl. Comp. Checked per TCM SB 03-03 - ali cyls. checked above minimum (42). 1) 70/80 2) 72/80 3) 72/80 4) 68/80 5) 72/80 6) 74/80. 2) C/W the follwing TCM repetitive SB's: M90-17 (C/C Insp), SB95-2 (Control Linkage Insp), SB95-7 (Fuel Manifold valve cover insp), SB96-12 (cyl Insp.), SB96-7C (Torque Values), MSB94-8D (Mag Timing), SID97-3G (Fuel System), SB09-14 (C/S Rust) and SB17-01A (flanged nut insp.), SB20-01 (fuel screen) and noted no defects.

3) #1 lower spark plug replaced with a new unit (part # URHB32E).

4) Drained oil, added 11 ots. of Phillips Victory 100W (SAE-50) oil. Installed and saftied a new AA48108-2 oil filter. Cut open filter and found no abnormal contaminants.

5) Ground runup and systems functional checks completed with satisfactory results and no fuel of pilleaks noted.

I certify that this Engine has been inspected in accordance with an Operation #3 inspection, and was determined to be in an airworthy condition. Signed

	,		John E. Sheehan	A+P 3439269 IA
	1	L L		1
		AVIATION	Shoreline Avlation, Inc.	
			Marshileld Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshileld, MA 02050	
6/29/2023	N414MP	Cessna 414A, s	serial # 414A-0317	Engine 1 Logbook
Hobbs Hours: TSMOH: 57.0	1686.9 :: Aircraft TT: 5509. :: Heater Hobbs: 613.8	5 :: #1 Engine TSMOH: 57.0 :	: #1Propeller SMOH: 682.6 :: #2 Propelle	er SMOH: 682.6 :: #2 Engine

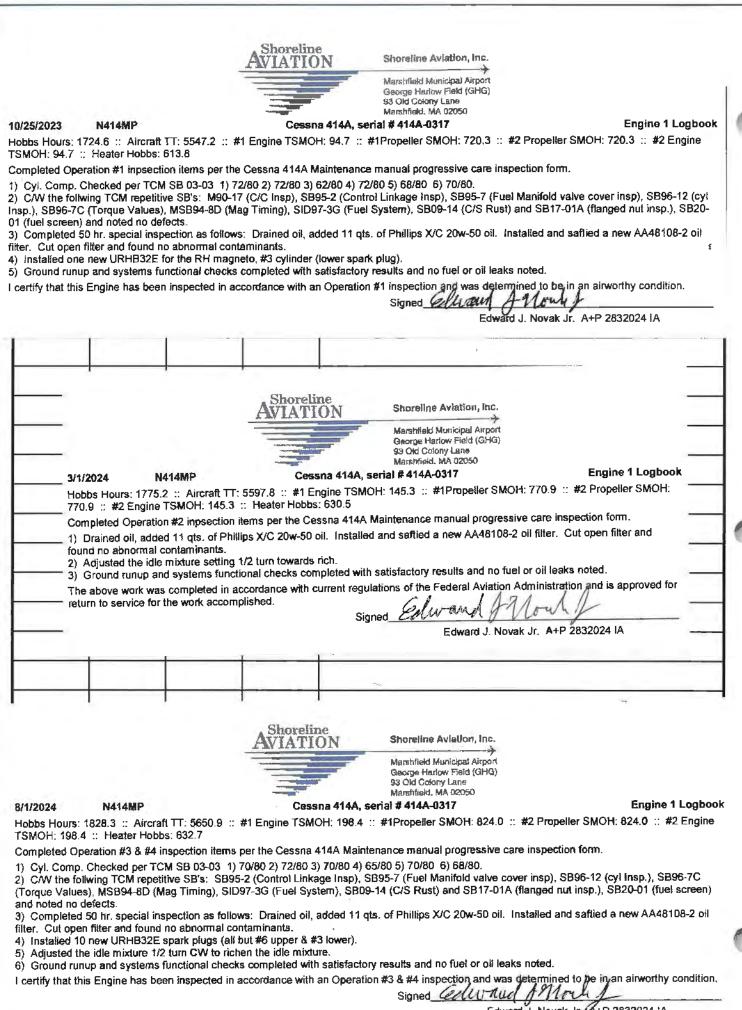
Completed 50 hr. Special inspection items as follows: Drained oil, added 11 qts. of Phillips Victory SAE50 oil. Installed and saftied a new AA48108-2 oil filter. Cut open filter and found no abnormal contaminants. Runup and leak check OK.

The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.

Signed,

Edward J. Novak Jr. A+P 2832024 IA


TOTALS—Carry forward to next page



Edward J. Novak Jr. 4+P 2832024 IA

N414MP

09/13/2024

## AD NOTES COMPLIANCE RECORD

Engine - Continental Motors - TSIO-520-NB

Propeller - Hartzell - ( )HC-( )( )Y( )

m/n: PHC-C3YF-2UF

s/n: 514067

s/n: EB7625B

Appliance - Connecting Rods - Engine Components Incorporated (ECi)

Appliance - Governors - McCauley

Appliance - Magnetos - Slick

Appliance - Cylinder assembly - Superior Air Parts

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance		Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
2006-10-21	CORRECTION - To prevent fatigue failure of the connecting rod and a possible uncommanded shutdown of the engine.		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
75-12-07	McCauley governors		DNA per part #.	X			Ed Novak A+P 2832024 IA
2020-19-06	Idler Gear Bearing Unapproved Variant		DNA to LH gov. per Bruce at New England Prop. because they don't use these McCauley bearings.	X			Ed Novak A+P 2832024 IA
74-18-05	Slick magnetos		DNA per part serial #.		x		Ed Novak A+P 2832024 IA
80-06-05	Slick magnetos		DNA per part serial #.	X			Ed Novak A+P 2832024 IA
81-16-05	Slick magnetos		DNA per part serial #.	X			Ed Novak A+P 2832024 IA
99-04-04	Magneto impulse coupling		DNA per engine model #.		x		Ed Novak A+P 2832024 IA
2011-26-07	To prevent engine failure due to migration of the magneto impulse coupling stop pin		DNA per engine model #.		x		Ed Novak A+P 2832024 IA
97-01-04	Cylinder assemblies		DNA per engine model #.		x		Ed Novak A+P 2832024 IA
2007-04-19	To prevent cylinder separation that can lead to engine failure		Superseded by R1		x		Ed Novak A+P 2832024 IA
2007-04-19R1	To prevent cylinder separation that can lead to engine failure		DNA per cylinder part #'s.		x		Ed Novak A+P 2832024 IA
78-06-01 R2	Flexible intake elbow		DNA per engine model #.		x		Ed Novak A+P 2832024 IA
79-05-09	Oil pressure relief valve	3/14/23 - 0 SMOH	C/W by RAM during engine O/H.	X			Ed Novak A+P 2832024 IA
80-01-04	Cylinder holddown flanges		DNA - affected component not installed.	X			Ed Novak A+P 2832024 IA
81-24-06	Fuel pump		DNA per date of installation.		x		Ed Novak A+P 2832024 IA

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AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
82-09-01	Fuel pressure regulator leaks		DNA per engine S/N.	x			Ed Novak A+P 2832024 IA
86-13-04 R3	Cylinder assemblies		DNA - affected component not installed.		x		Ed Novak A+P 2832024 IA
87-23-08	Crankshaft fatigue cracks		Superseded by 97-26-17.		x		Ed Novak A+P 2832024 IA
88-03-06	Oil filter		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
89-24-01 R1	Scavenge oil pump gears	3/14/23 - 0 TSMOH	C/W by RAM during engine O/H.	x			Ed Novak A+P 2832024 IA
91-19-03	Champion oil filter		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
93-08-17	Incorrect oil pick-up tube		DNA per engine model #.	x			Ed Novak A+P 2832024 IA
93-10-02	Cylinder valve retainer		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
93-16-15	Fuel pumps	3/14/23 - 0 TSMOH	C/W by RAM during engine O/H.	x			Ed Novak A+P 2832024 IA
94-14-12	Low octane detonation		Superseded by 95-21-15.	x			Ed Novak A+P 2832024 IA
95-21-15	Engine teardown and analytical inspect.		DNA per date of installation.	x			Ed Novak A+P 2832024 IA
97-26-17	CORRECTION - Crankshaft fatigue cracks	3/14/23 - 0 TSMOH	C/W by RAM during engine O/H.		x	Next O/H or crankshaft removal	Ed Novak A+P 2832024 IA
PL98-01-08	Exhaust roller rocker arms		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
PL99-09-17	Crankshaft failure		Superseded by 99-19-01.	x			Ed Novak A+P 2832024 IA
99-19-01	Crankshaft failure		DNA per date of installation.	x			Ed Novak A+P 2832024 IA
PL2000-08-51	Crankshaft connecting rod journal fracture		Superseded by 2000-23-21.		x		Ed Novak A+P 2832024 IA
2000-23-21	Fracture of the crankshaft connecting rod journal		DNA per date of mfg.	x			Ed Novak A+P 2832024 IA
2004-08-10	Prevent loss of engine power		DNA per date of mfg.	x			Ed Novak A+P 2832024 IA
2009-16-03	To prevent the separation of the cylinder head		Superseded by 2014-05-29.		x		Ed Novak A+P 2832024 IA
2009-19-07	Correction - To prevent loss of engine power due to cracks in the cylinder head, possible engine failure, and fire in the engine compartment		DNA - affected component not installed.		x		Ed Novak A+P 2832024 IA
2009-24-51	To address rapid wear on the face of hydraulic lifters		Superseded by 2009-24-52.		x		Ed Novak A+P 2832024 IA

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AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number	
2009-24-52	To address rapid wear on the face of hydraulic lifters		Superseded by 2010-11-04.		x		Ed Novak A+P 2832024 IA	
2010-11-04	To prevent excessive hydraulic lifter wear		DNA - affected component not installed.		x		Ed Novak A+P 2832024 IA	
2011-25-51	To address fractures in starter adapter shaft gears		Superseded by 2012-10-13.	X			Ed Novak A+P 2832024 IA	
2012-03-06	To prevent an in-flight shutdown due to a failed fuel servo diaphragm		DNA - affected component not installed.		x		Ed Novak A+P 2832024 IA	
2012-10-13	To prevent starter adapter gear shaft failure		DNA per part #.		x		Ed Novak A+P 2832024 IA	
2014-05-29	Superior Air Parts Investment Cast Cylinder Assemblies		DNA - affected component not installed.		x		Ed Novak A+P 2832024 IA	
2016-16-12	ECI Class 71 or Class 76 Cylinder Assembly Failures		DNA - all cyls are above serial # 61176	x			Ed Novak A+P 2832024 IA	
2022-04-04	STC Stratus Oil Filter Adapter Fiber Gasket Oil Loss		Superseded by 2023-17-04.	x			Ed Novak A+P 2832024 IA	
2022-16-03	S-1200 Series Magnetos Roller Bearings Improper Lubricatio		N/A - affected item not installed.	X			Ed Novak A+P 2832024 IA	
2023-02-12	Intake Valve Failures		DNA per cylinder serial #'s.	x			Ed Novak A+P 2832024 IA	
2023-04-08	Crankshaft Assembly Counterweight Retaining Rings in the Counterweight Groove		Superseded by 2023-05-16.	X			Ed Novak A+P 2832024 IA	
2023-05-16	Improper Installation of Counterweight Retaining Rings		DNA - engine serial number. DNA - engine not assembled at TCM factory.	X			Ed Novak A+P 2832024 IA	
2023-17-04	STC F&M or Stratus Oil Filter Adapter Fiber Gasket Oil Loss		N/A - affected STC not installed.	x			Ed Novak A+P 2832024 IA	
77-12-06 R2	Prop blade		Superseded by 2002-09-08.		x		Ed Novak A+P 2832024 IA	
2001-07-03	CORRECTION - Prevent propeller failure of the propellers returned to service by BASCO		DNA - propeller not returned to service by BASCO.	X			Ed Novak A+P 2832024 IA	
2001-23-08	Prevent failure of the propeller hub resulting from cracks		DNA per date of mfg.		x		Ed Novak A+P 2832024 IA	
2002-09-08	Prevent failure of the propeller blade from fatigue cracks		Superseded by 2007-26-09.	x			Ed Novak A+P 2832024 IA	
2003-01-03	Prevent in-flight propeller blade separation		DNA per date of mfg.	x			Ed Novak A+P 2832024 IA	
2003-03-20	Prevent fatigue failure of the original propeller hub and blades		DNA per model #.	x			Ed Novak A+P 2832024 IA	
2003-13-17	Maintenance by T&W Propellers Inc.		DNA - propeller is O.E.M.	x			Ed Novak A+P 2832024 IA	
2005-14-11	Maintenance by Southern California Propeller Service		DNA - propeller is O.E.M.	x	T		Ed Novak A+P 2832024 IA	
2006-18-15	To prevent failure of the propeller hub causing blade separation and subsequent loss of airplane control		Superseded by 2009-22-03.		x		Ed Novak A+P 2832024 IA	

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AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance		Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
2006-24-07	To detect unsafe conditions that could result in a propeller blade separating from the hub and loss of control of the airplane		DNA - propeller is O.E.M.	2	<		Ed Novak A+P 2832024 IA
2007-26-09	To prevent failure of the propeller blade from fatigue cracks in the blade shank radius		DNA per date of mfg.	2	×		Ed Novak A+P 2832024 IA
2008-13-28	To prevent failure of the propeller hub		DNA - propeller is NOT LH rotating.		X		Ed Novak A+P 2832024 IA
2009-22-03	To prevent failure of the propeller hub causing blade separation and subsequent loss of airplane control		DNA per part serial #.		X		Ed Novak A+P 2832024 IA

## N414MP LH Eng. SB's Date: 8/1/24 Hobbs: 1828.3 ACTT: 5650.9 TSMOH: 198.4 Eng. M/N: TSIO-520-NB Serial #: 514067

Item	Bulletin	Bulletin	Bulletin	Date	
	No.	Description	Date	Completed	Remarks
<u>#</u> 1	M67-12	Overboost - Engine	5/31/1967		Due if MAP goes 6" over redline
2	M70-11	Slick SB # 1-70	6/22/1970		DNA - Magneto M/N
3	M71-14	Slick SB # 1-71	6/21/1971		DNA - Magneto M/N
4	M71-21	Turbo Shaft Insp.	11/22/1971		Information Only
5	M72-17R1	Max Allowable Piston/Rod Weight Difference	10/5/1973		Information Only
6	M74-18	Slick S.B. 1-74	9/16/1974		DNA - Magneto M/N
7	M75-6R1	Model Conversion	6/4/1975		Information Only
8	M75-30	Prestolite Alternators	12/19/1975	0/4 4/00 5405 5	DNA - not installed
9	M76-4	Crankcase Oil Seal Installation Remote Mounted Oil Coolers	3/12/1976	3/14/23 - 5425.5	Due at C/S oil seal change
10 11	M76-5R1 M77-3	Fuel Alternate Grades	5/25/1976 1/11/1977		DNA - No Remote Oil Cooler Infomation Only
12	M77-9	Thru Bolt Change	3/16/1977		DNA - already incorporated
13	M78-6	R+R of Rosan Exh. Studs	3/3/1978		Due during Exh. Stud R+R
14	M78-5R3	Flexible Elbow p/n 635930	10/23/1978		DNA - Engine M/N
15	M78-16	#2 Cyl. Intake Elbow p/n 629138	11/29/1978		DNA - Engine M/N
16	M80-10	R+R of Some 642232 Elbows	3/28/1980		C/W by RAM during O/H
17	M81-16	AiResearch S.L. TP61-0043-2	7/27/1981		DNA - RAM O/H Turbo
18	M81-19	Availability of New Flex Elbows	8/5/1981		DNA - RAM Elbows Installed
19	M81-25	Exhaust Flange to Cyl. Installation	11/30/1981		Superseded by SB14-8
20	M83-5	Slick S.B. 3-82	3/7/1983		DNA - Magneto M/N
21	M83-6	Slick S.B. 2-82	3/7/1983	2/4 4/22 5425 5	DNA - Magneto M/N
22 23	M81-4R1	Airesearch S.L. TP61-0046	4/29/1983	3/14/23 - 5425.5	•
23 24	M81-15R1 M84-5	Prestolite Alternators Gear Driven Alter. Insp.	6/16/1983 2/13/1984		DNA - not installed Due @ any alternator malfunction
24 25	M84-8	Mag Timing Indicator Plate	6/19/1984		DNA - No Timing Plate Installed
26	M84-13	Slick S.B. 1-84	10/27/1984		DNA - Magneto M/N
27	M85-9R1	Piston to Cyl. Dome Clearance	8/6/1985		DNA - ECI Cyls. Installed
28	M85-10	Cyl. Hold Down Nuts	7/18/1985	3/14/23 - 5425.5	
29	M86-4	Fuel Pumps	1/9/1986		Due if fuel pump press. Wanders
30	M86-13R1	Cam Plug Insp.	10/17/1986		DNA per Date of O/H
31	M86-14	Camshaft 629726 Rework	10/1/1986		DNA - RAM Cam Installed
32	M87-15	Alternator Ground Strap	7/13/1987	3/14/23 - 5425.5	Due at eng. or alter. Replacement
33	M87-16	Slick S.B. SB1-86A	8/14/1987		DNA - Magneto M/N
3	M87-23	C/S Counterweights ID @ O/H	11/24/1987	3/14/23 - 5425.5	C/W by RAM During O/H
4	M88-4	TCM Oil Filters AD 88-03-06	1/15/1988		DNA - Not Installed
35 36	M88-9 M88-10	Lightning Strikes Contaminated Fuels	8/24/1988 8/24/1988		Due at any lightning strike Due when wrong fuel is used
37	M89-7 R1	Eng. Ops. After O/H or Cyl. R+R	8/4/1989	3/14/23 - 5425.5	C/W by RAM During O/H
38	M89-9	Excessive Crankcase Pressures	4/21/1989	0/14/20 0420.0	Information Only
39	M89-18	EGT Recommendations	8/10/1989		EGT Information
40	M90-6	Scavenge Pump Gears	2/26/1990	3/14/23 - 5425.5	C/W by RAM during O/H
41	M90-13	Exh. Valve Stem Corr./Erosion	7/16/1990		Due at any access to exh. Valves
42	M90-16	7th Stud Improvement	8/22/1990	3/14/23 - 5425.5	C/W by RAM during O/H
43	M90-17	C/C Insp. Criteria	8/23/1990		Due at each 100 hr. Insp.
44	M91-4	Piston to Ring Application	2/11/1991	3/14/23 - 5425.5	,
45	M91-7	Cyl. Barrel Ultrasonic Insp.	3/20/1991		DNA - affected Cyls. NOT Installed
46	M91-6	Cyl. Barrel Insp.	3/20/1991	2/4 4/22 5425 5	DNA - affected Cyls. NOT Installed
47 48	M91-9 M92-6	Cam & Lifter Lube During Build Rockershaft Retention Improvement	8/9/1991 2/28/1992	3/14/23 - 5425.5	C/W by RAM during O/H C/W by RAM during O/H
40	M92-0 M92-7	Deck Studs	5/26/1992		C/W by RAM during O/H
<del>-</del> 50	M92-9	Flanged Thru-Bolt p/n 652541	5/29/1992		C/W by RAM during O/H
51	M92-12	Alternator Thru-Bolt Insp.	8/27/1992	0/11/20 0120.0	DNA per Alter. S/N
52	M92-14	Modine Oil Coolers	9/9/1992		DNA per Oil Cooler P/N
53	M93-4	C/S Counterweights	2/12/1993	3/14/23 - 5425.5	C/W by RAM during O/H
54	M93-8	Rocker Arm to Rotocoil Clearance	2/19/1993	3/14/23 - 5425.5	C/W by RAM during O/H
55	M93-5	Chamfer of Oil Feed Holes	2/19/1993	3/14/23 - 5425.5	C/W by RAM during O/H
56	M93-10	TCM Ign. SB No. 639	3/1/1993		DNA - No Impulse Couplings
57	MSB93-12	Valve Retainer Key Insp. AD 93-10-02	5/12/1993		DNA - Eng. S/N
58	CSB94-1	TCM Ign. SB No. 641 AD94-06-09	2/1/1994	2/4 4/22 5425 5	DNA - Slick Mags Installed
59 60	SB94-2	Oil Filter adapter Mounting Stud	2/10/1994	3/14/23 - 5425.5	C/W by RAM during O/H
60 61	SB94-11 CSB94-15	Oil Pump Gasket C/C Stud Insp.	11/14/1994	3/14/23 - 5425.5	C/W by RAM during O/H
61 62	CSB94-15 SB95-2	Insp.& Maint. Of Eng. Con. & Linkage	12/2/1994 4/21/1995	8/1/24 - 5650.9	DNA - Eng. S/N Due at ea. 100 hr. Or linkage work
63	MSB95-6	Fuel Pump Drive Coupling	10/19/1995	3/14/23 - 5425.5	C/W by RAM during O/H
64	SB95-7	Manifold valve Cover Insp.	12/8/1995	8/1/24 - 5650.9	, ,
65	SB96-3B	C/S Gear Bolt Insp.			C/W by RAM during O/H
66		C/S Ultrasonic Insp. AD 97-26-17	10/14/2008		C/W by RAM during O/H
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## N414MP LH Eng. SB's Date: 8/1/24 Hobbs: 1828.3 ACTT: 5650.9 TSMOH: 198.4 Eng. M/N: TSIO-520-NB Serial #: 514067

67	M90-14	Champion Action Alert 90-1	8/7/1990		DNA - effected part not installed
68	SB96-12	Continued A.W. Instr. For TCM Cyls.	9/10/1996		DNA - ECI Cyls. Installed
					•
69	SB96-3B	C/S Gear Bolt Insp.	10/14/1996		DNA per Date of Mfg.
70	CSB97-10A	Piston Pin Plug Wear AD 97-21-02	7/15/1997		DNA - Eng. S/N
71	SB97-11	Single Piece Rocker Bushing	8/10/1997		DNA - RAM Engines
72	SB97-15	TCM Ign. SB 660	12/5/1997		DNA - No Affected switch installed
73	CSB98-1B				DNA per Date of Mfg.
		Intake & Exh. Valve insp.	6/1/1998		1 0
74	MSB99-3C	C/S Inspection AD 99-09-17	7/27/1999		DNA per Date of Mfg. & C/S S/N
75	SB99-8	Fuel Injection System Preservation	11/18/1999		DNA - RAM O/H
76	SB00-4A	Australian Avgas Contamination	3/7/2000		DNA - Eng. Not operated in Australia
77	SB00-10	Fuel Pump Seal 649198	12/19/2000	3/14/23 - 5425.5	C/W by RĂM During O/H
78	CSB01-01	Fuel Pump Insp. And Seal Leak Test	4/25/2001	0, 1, 1, 20 0, 120, 0	DNA per Date of Mfg.
78a	SIL00-7B	Oil Gage Rod Application	6/19/2017		Due when oil gage rod (dipstick) is replaced
79	MSB00-5D	Crankshaft Inspection AD 00-23-21	10/17/2001		DNA - Eng. S/N
80	CSB02-8	Ignition CSB 664	9/6/2002		DNA per Magnetos S/N's
81	SB01-3A	TCM Gear Driven Alternators	12/10/2002	3/14/23 - 5425.5	Due @ next Alter. O/H or R+R
82	CSB02-2C	Str. Adapter Shaft Seal Insp.	12/11/2002	3/14/23 - 5425.5	C/W by RAM During O/H
83	SB03-3	Cyl. Comp. Check procedures	3/28/2003	8/1/24 - 5650.9	Due at each 100 hr. or annual insp.
84	CSB04-5A	Ign. S.B. 665A	8/30/2004		DNA - Slick Mags Installed
85	SB04-11	Valve Guide Install & Reaming Procedures	11/2/2004		DNA - ECI Cyls. Installed
86	SB04-10	Piston Position Marking	10/26/2004	3/14/23 - 5425.5	Due @ ea. Piston R+R
87	SB00-3A	C/S, Rod & Counterweight Repair Info.	10/29/2004	3/14/23 - 5425.5	C/W by RAM During O/H
		÷ .		0/14/20 0420.0	· · · · ·
88	SB05-2	Overspeed Limitations	1/31/2005	011101 5050 0	Due @ any C/S Overspeed
89	SB96-7D	Torque Limits	8/11/2015	8/1/24 - 5650.9	Due during all Maintenance
90	CSB05-8D	Improved Cam Gear p/n 656818	8/22/2018	3/14/23 - 5425.5	C/W by RAM During O/H
91	SB05-9	Slick S.B. SB1-88B	10/20/2005		DNA to this A/C Model
92	SB06-1A	TCM Fuel Nozzle Insp. & R+R	4/28/2006		DNA - RAM Nozzles are Installed
93				3/14/23 - 5425.5	
	CSB07-01A	0 1	9/2/2020		Due @ any Cyl. R+R
94	MSB94-8D	Mag to Eng. Timing	2/17/2010	8/1/24 - 5650.9	Due at each 100 hr. or mag work
95	SB07-8	Recommended RPM & MAP Settings	11/2/2007	3/14/23 - 5425.5	Information & Recommendations
96	SB08-3A	Thr. & Mix. Control Arms	7/30/2010	3/14/23 - 5425.5	Due whenever bronze arm is R+R
97	SB08-4	Fuel Injection System Contamination	3/25/2008	3/14/23 - 5425.5	Due @ any Fuel System Component R+R
98	SID97-3G		10/21/2015		
		Fuel System Adjustment Procedures		8/1/24 - 5650.9	Due @ O/H, ea. 100 hrs., etc.
99	SB08-8B	Slick S.B. SB2-08	4/10/2009		DNA - Magneto S/N's
100	SB96-11B	Prop. Strikes & Hyd. Locks	7/10/2008		Due at any prop. Strike or hyd. Lock
101	SB97-6B	Mandatory Repl. Parts	11/18/2009	3/14/23 - 5425.5	Due at O/H & all eng. maintenance
102	MSB96-10B	C/S Ultrasonic Insp. AD 97-26-1	8/10/2015	3/14/23 - 5425.5	C/W by RAM During O/H
103	CSB08-9A	Slick S.B. SB03-8Å	10/14/2008		DNA - Magneto S/N's
104	SB08-13	Induction Hose Clamp Installation	10/14/2008	3/14/23 - 5425.5	Due @ ea. Induction Hose Clamp R+R
		•			
105	SIL98-9E	Recommended TBO	8/21/2015	3/14/23 - 5425.5	Due at 7025.2 hrs or 03/31/2035
106	SIL 99-1	Eng. preservation for active/stored aircraft	3/25/1999		Due if A/C is inactive for > 30 days
107	MSB09-1B	Cylinder Replacement	8/18/2009		DNA - no affected cyls. Installed
108	SB08-12	Crankshaft Gear Supersedure	9/9/2008		Due @ next access or TBO
109	CSB10-2	Kelly T-Wheel Replacement	1/22/2010		DNA per Turbo Serial #'s
					•
110	MSB09-8A		12/14/2009		DNA per date of O/H
111	SB09-14	C/S Corrosion Treatment	10/16/2009		Due if rust is noted on C/S
112	CSB09-11A	Minimum Cruise RPM Limits	11/12/2014	12/1/13 - 4054.7	Owner Advised
113	SB09-7	Push Rod Seal Leakage	7/16/2009		DNA per date of O/H
114	SB09-14	C/S Rust Treatment	10/16/2009	8/1/24 - 5650.9	Due ea. 100 hr.
115	CSB 668	Ign. Harness Attach Plate	5/18/2010		One time insp. completed OK
		5			· · ·
116	SIL04-12A	TCM Authorized Adjustments	5/18/2010		Due as needed - see bulletin
117	MSB10-3	Kelly SB 039A AD 2010-07-	5/18/2010		DNA per Turbo s/n
118	SID10-4	Volcanic Ash Contamination	7/21/2010		DNA-no ash contamination occurred
119	SB11-3	Alter. Drive Coupling Installation	3/18/2011	3/14/23 - 5425.5	Due @ ea. Access to coupling
120	CSB08-3C	Remove Bronze Levers from Service	7/7/2013	0/11/20 012010	Found PCW
121	SID97-4F	Cyl. Bore & Piston Fit Specs.	8/13/2014		DNA - ECI Cyls. Installed
122	SB13-4C	Aneroid Equipped Fuel Pumps	11/7/2016		DNA per pump s/n's installed
123	MSB13-7	H.E.T. Bulletin 048, rev. 1	1/15/2014		DNA per eng. m/n
124	SIL 13-2A	Alternator ICA's	1/15/2014	3/14/23 - 5425.5	Due during Alternator Maintenance
125	SID 05-1A	Insp. Guidelines for Cams & Lifters	5/2/2014	3/14/23 - 5425.5	Due & access to Cam and/or Lifters
126	MSB14-3	H.E.T. Bulletin # 057	5/5/2014	0.11/2010120.0	DNA per Turbo s/n's
					•
127	SB14-5	H.E.T. Bulletin # 059	6/19/2014		DNA per Alter. s/n
128	SIL99-2C	Authorized Sealants, Lubes & Adjesives	9/16/2014	8/1/24 - 5650.9	Due during all Maintenance
129	SB14-8	Exh. Flange Installation	2/3/2015	3/14/23 - 5425.5	Due during any exhaust installation
130	SB15-4	Slick SB1-15	8/19/2015		DNA per both magneto s/n's
131	SB15-5	Slick SL 74-20-001 (RPM drops)	10/6/2015		Due if timing drifts more the 4 degrees
132	SB15-6C	NiC3 Cylinders	9/27/2019	0/4/04 5050 0	Applies if these cylinders are installed-none are
133	SIL16-2	Standard Practices Manual	4/15/2016	8/1/24 - 5650.9	Due during all Maintenance
134	SB16-6	Engine Kickback Damage	10/19/2016		Due when kickback occurs
135	SB16-7	H.E.T. Bulletin \$ 067	2/3/2017		DNA per eng. m/n

## N414MP LH Eng. SB's Date: 8/1/24 Hobbs: 1828.3 ACTT: 5650.9 TSMOH: 198.4 Eng. M/N: TSIO-520-NB Serial #: 514067

136 137 138 139 140 141 142 143 144 145 146 147 148 149	SB16-8 SB17-01A SB 670 SIL17-02 SIL17-03 SB17-04 SB17-05 SB17-06 SIL 17-07 SB18-04A SIL 18-02 SIL19-04 SB19-05	Turbo Exh. Transition H,E.T. Bulletin # 066 Flanged Nut (652541) Insp & Corr. Prev. TCM Magnetos Maint. Turbo Check Valve Filter Insp. & Cleaning Oil Filter Anti-stick Gasket TCM SB 670 - R+R of Dist. Block TCM SB 643C - Insp. Intervals Conn. Rod Bolt Insp. Discontinued Alternator R+R of Flanged Nut Service Documents Oil Brand Selection Valve Guide Application	2/3/2017 2/3/2017 10/20/2017 7/14/2017 7/12/2017 7/27/2017 9/29/2017 10/20/2017 11/14/2017 12/18/2018 2/15/2018 10/11/2019 10/24/2019	3/14/23 - 5425.5 3/14/23 - 5425.5	DNA per Eng. m/n DNA per Alter. p/n DNA - affected part # not installed DNA - Slick Mags Installed DNA per Eng. M/N Info. Only DNA - Slick Mags Installed DNA - Slick Mags Installed Due at Connecting Rod Bolt Install Info. Only DNA per Date Info. Only Info. Only Due @ O/H or Cyl. Repair
150	CSB19-06	Hartzell Alert SB 081A (Alter. Hub Nut) COMPLE	10/24/2019 11/19/2019 12/10/2019	<mark>3/14/23 - 5425.5</mark> 9/13/21 - 5233.6	See SB for affected Units
151 152 153 154 155 156 157 158	SB19-07 SIL19-10 SB20-01 SB20-03 SIL20-05 SB673C MSB23-01A SB23-03	C/S End Play Oil Filter Removal Fuel Screen Maint. Eng. Pres. During COVID Energizer Starter ICA's 1200 series Mag Bearings C/S Counterweights Hartzell SB 096 (Alternator)	12/10/2019 12/16/2019 2/20/2020 4/13/2020 9/28/2020 5/24/2022 2/16/2023 5/24/2023	8/1/24 - 5650.9	DNA per Eng. S/N Info. Only Due ea. 100 hr./Annual Info. Only Info. Only DNA - slick Mags are installed DNA per Eng. S/N DNA per Alter. S/N

# ENGINE MAINTENANCE RECORDS

RAM AIRCRAFT, LP • SINCE 1976 •

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CESSI

## Aircraft Registration \_\_\_\_\_\_ Engine Position \_\_\_\_\_\_ Engine Serial No. \_\_\_\_519264

7505 Karl May Dr. + P.O. Box 5219 + Waco Regional Airport + Waco, TX 76708 + Phone: (254) 752-8381 + Fax: (254) 752-3307 + www.ramaircraft.com



## ENGINE MAINTENANCE RECORDS

Log No. \_\_\_\_\_

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Aircraft Registration No.	
Engine Manufacturer Continental	
Model_ TS10-520-NB	
Serial No. 519264	
Date installed on aircraft	
Time Between Overhauls (TBO) 1600	Hours

If used on multi-engine aircraft:

🔀 Right

🗋 Left

Waco Regional Airport 7505 Karl May Drive • P.O. Box 5219. • Waco, Texas 76708 Phone: (254) 752-8381 Fax: 254-752-3307 www.ramaircraft.com

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Page No.

DATE SERV	E OVERHAUL METER TIM	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATION NO. OF PERSON PERFORMING WORK	
		TOTALS brought forward from previous page	

	Total	Total	Tach or
	Time	Time	Recording
Date	In	Since	Meter
	Service	Overhaul	Time
10/05/2022	4692.5	0.0	

### TCM TSIO-520-NB Series VII Right Engine S/N 519264

RAM Aircraft, Limited Partnership • Waco Regional Airport

Above referenced engine overhauled to new parts limits per FAR 43.2(a)(1)(2) to conform w/CM SM X-30574A and Continental M-0, Standard Practice Maintenance Manual. Applicable AD's and Service Bulletins C/W at this time. All gears cleaned, polished when required, inspected, magnafluxed, and no cracks found. Finish and dimensional limits within RAM Gear Inspection Specification No. 1818, Rev. P dated 07/19/2017. Above referenced engine modified to TSIO-520-NB 335 HP per STC SE09104SC-D (includes STC SE4327SW-D). Installed new RAM camshaft p/n 1058-20, s/n XI21076 per STC SE09104SC-D. Installed new lifters p/n SA628488 (int), p/n SA646277 (exh). AD 10-11-04 n/a to lifter p/n installed. AD 97-26-17 c/w per installation of overhauled VAR crankshaft p/n 649898, s/n N05KA278 per CAT CSB96-8. C/W ultrasonic inspection per MSB96-10B, due at next overhaul or when crankshaft removed. AD 99-19-01 n/a per crankshaft date of manufacture I/A/W TCM MSB99-3C. AD 2000-23-21 N/A to crankshaft serial number/date of manufacture I/A/W TCM Mandatory Service Bulletin MSB00-5D. Engine assembled with new RAM crankcase p/n 2922-1, s/n 21J0361. Installed new Superior steel cylinders. Installed overhauled oil cooler p/n 8000440, s/n 4082828. C/W AD 89-24-01 R1 per installation of starter adapter p/n 642085A4 with current scavenge pump gears. AD 2012-10-13 and MSB11-4B starter adapter inspection n/a per p/n installed or manufacture date. Installed new RAM/FAA/PMA fuel nozzles p/n 2562-14D. TCM Service Bulletin SB06-1A N/A per installation of RAM fuel nozzles. Installed modified connecting rods p/n 1162 per STC SE4327SW-D as FAA/PMA approved replacement. Engine accessories exchanged for overhauled or new units with exception of the prop governor, alternator, vacuum pump, hydraulic pump and tach generator which were not installed per this work order. New Kelly pressurized magnetos p/n ES6320 installed per STC SE4651SW-D and pressurized. MSB94-8D on magneto timing procedure c/w per timing to STC degree requirements with TDC locator and protractor with pointer. P/N 652130 & 652131 rocker arms installed. Installed RAM/FAA/PMA oil cooler baffle p/n 1253-1, rocker box cover gaskets p/n 1387-1, spring loaded induction clamps p/n 1170-2 and double clamps p/n 1170-5. Category 1 thru 3 CMI Service Bulletin Compliance Listing in RAM Manual. Engine ground run on test stand per RAM specifications for 120 minutes. Engine run-in with Aeroshell 100 mineral oil. See RAM Recommended Oil Grade Maintenance Tip MT-1 for recommended oils. Engine approved for return to service for the work performed. Engine preserved per Continental M-0, Standard Practice Maintenance Maunal temp. storage up to 90 days. Pertinent details on file under Project No 10271.

RAM Aircraft, Limited Partnership, P.O. Box 5219, Waco, Texas 76708 CRS VA1R551K

SUB-TOTALS this page TOTALS—Carry forward to next page



Shoreline Aviation, Inc.

Marshfield Municipal Airport George Harfow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050

#### 12/14/2022 N414MP

Cessna 414A, serial # 414A-0317

Hobbs Hours: 1629.9 :: Aircraft TT: 5452.5 :: #2 Engine TT: 4692.5 :: #2 Engine TSMOH; 0.0

1) This engine installed onto the right side of Cessna 414A, N414P, serial # 414A-0317 using all new engine mounts per Ram and Cessna 414A maintenance manual instructions.

2) All accessories and oil and fuel hoses were provided by RAM and installed except for vac. pump, tach gen, hydraulic pumps, prop, prop gov and alternator. Prop gov was O/H and reinstalled from the previous engine. A new vacuum pump was installed. A new alternator was installed reusing the existing alternator drive coupling from the previous engine. Tach gen was reinstalled from the previous engine in "as removed" condition. Air conditioning hydraulic pump was reinstalled in "as removed" condition from the previous engine. Landing gear hydraulic pump was replaced with an O/H unit. Propeller was reinstalled from the previous engine in "as removed" condition after flushing the oil cylinder.

3) Engine was serviced with 12 qts. of Phillips Type M 20w-50 mineral oil and pre-oiled per RAM instructions. Engine was also turned by hand until oil pressure was read on the cockpit gage.

4) Ground runup revealed that the propeller blades would NOT go back to low pitch after the blades were moved toward the feather position. Prop. blades would go to feather on engine shutdown.

5) Installed a known good prop governor from the other engine on this aircraft for troubleshooting purposes and the same problem occured.

6) Completed leak down test of the oil transfer collar per Continental/RAM instructions and found the gage reading to be 0/80.

7) Removed the alternator and removed the RH side of the prop governor oil transfer collar. Found the transfer collar inner surfaces that ride on the crankshaft to be scored and grooved.

8) Removed engine and returned to RAM for repair.

The above work was completed in accordance with current regulations of the Federal Aviation Administration and is NOT approved for return to service for the work accomplished.

Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521

Signed Edward Mor

dward J. Novak Jr. A+P 2832024 IA

Engine 2 Logbook

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Date	Total Time In Service	Total Time Since Overhaul	Recording Meter Time
02-20-23	4692.5	0.0	1629.9



RAM Aircraft, Limited Partnership • Waco Regional Airport

# CONTINENTAL TSI0-520-NB RIGHT ENGINE S/N 519264

The above referenced engine was disassembled for maintenance. The engine was cleaned, inspected and reassembled to service limits per CMI Standard Practice Maintenance Manual M-0 and CMI Overhaul Manual X-30574. Reused crankcase, camshaft and lifters. Installed overhauled crankshaft S/N C249711N, and new main and rod bearings. C/W MSB96-10B ultrasonic inspection. Disassembled and cleaned cylinders. Reinstalled cylinder assemblies, MSB22-01 N/A per S/N's. Installed overhauled oil cooler S/N E98-3059-912. Installed accessories in their respective positions with existing time in service with the exception of the vacuum pump, prop governor, tach generator, alternator, and hydraulic pump which were not installed per this work order. Cleaned and flushed lifters, starter adapter and oil pump. Serviced engine with Aeroshell 100 oil. Run in test cell for 1 hour. Engine is approved for return to service for work performed. Engine preserved per CMI M-0 Standard Practice Maintenance Manual temp, storage up to 90 days, Pertinent details on file under Project No. 10536.

RAM Aircraft, Limited Partnership, P.O. Box 5219, Wa co Texas 76708 CRS VA1R551K

SUB-TUTALS UNS page

TOTALS—Carry forward to next page

		AVIATION	Shoretine Avlation, Inc.	
			George Harlow Field (GHG)	
			93 Old Colony Lane Manshfield, MA 02050	
3/14/2023	N414MP	Cessna 414A	, serial # 414A-0317	Engine 2 Logboo
		.5 :: #2 Engine TT: 4692.5 ::	•	
<ol> <li>2) Engine was see oil pressure was in</li> <li>3) Set idle speed</li> <li>4) Ground runup</li> </ol>	erviced with 12 qts. of Ph read on the cockpit gage. I, idle mixture, low unmet end systems functional of	illips Type M 20w-50 mineral of ered fuel pump pressure, high checks completed with satisfact	rial # 414A-0317 after repairs by RAM as I and pre-oiled per RAM instructions. Eng unmetered fuel pump pressure & maximu tory resufts and no fuel or oil leaks noted. the Federal Aviation Administration and i	jine was also turned by hand until m MAP at full power.
the work accomp	lished.	Ince with current regulations of		
Shoreline Aviation 93 Old Colony La				•
Marshfield, MA 0				1 1 1
781-837-8521			Signed all and f.	Mosh
				ak Jr. A+P 2832024 IA
	1			
		AVIATION	Shoreline Aviation, inc.	
		A ALLANTA	Marshflekt Municipal Airport	
			George Harlow Field (GHG)	
			93 Old Colony Lane Marshfield, MA 02050	
5/10/2023	N414MP	Cessna 414/	A, serial # 414A-0317	Engine 2 Logbo
and the second second			3 :: #1Propeller SMOH: 653.9 :: #2 Proj	
	Heater Hobbs: 612.5	olo w t Eligino tomort. 200		Schol Onior 1: 000.0 #r. Eligine
1) Cyl. Comp. C 2) C/W the folk Insp.), SB96-7C 01 (fuel screen)	Checked per TCM SB 03- ving TCM repetitive SB's: (Torque Values), MSB9- and noted no defects. Idded 10 qts. of Phillips \	03 - all cyls. checked above mi M90-17 (C/C Insp), SB95-2 (C 4-8D (Mag Timing), SID97-3G (	ance manual progressive care inspection inimum (42). 1) 64/80 2) 72/80 3) 70/80 4) Control Linkage Insp), SB95-7 (Fuel Manif Fuel System), SB09-14 (C/S Rust) and S called and saftied a new AA48108-2 oil filto	66/80 5) 66/80 6) 68/80 old valve cover insp), SB96-12 (c B17-01A (flanged nut insp.), SB2
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1) Cyl. Comp. C 2) C/W the follw Insp.), SB96-7C 01 (fuel screen) 3) Drained oil, a abnormal contar 4) Ground runu I certify that this 6/29/2023 Hobbs Hours: 16 TSMOH: 57.0 :: 1) Completed 50	N414MP 86.9 :: Aircraft TT: 5509 Heater Hobbs: 613.8 Nr. Special inspection its Noted 10 (15. of Phillips V ninants. P and systems functional Engine has been inspection N414MP 86.9 :: Aircraft TT: 5509 Heater Hobbs: 613.8 Pr. Special inspection its Provide the special inspecial inspection its Provide the	03 - all cyls. checked above mi M90-17 (C/C Insp), SB95-2 (C 4-8D (Mag Timing), SID97-3G ( //ictory 100W (SAE-50) oil. Inst checks completed with satisfa- ted in accordance with an Oper Shoreline AVIATION Cessna 414A 0.5 :: #1 Engine TSMOH: 57.0 ems as follows: Drained oil, ad	Inimum (42). 1) 64/80 2) 72/80 3) 70/80 4) Control Linkage Insp), SB95-7 (Fuel Manif Fuel System), SB09-14 (C/S Rust) and S alled and saftied a new AA48108-2 oil fifth ctory results and no fuel or oil leaks noted ation #3 inspection and was determined t Signed John E. She John E. She John E. She Marshfield Municipal Airport George Harlow Field (GHG) 93 CM Colony Laite Marshfield. MA 02050 , serial # 414A-0317 :: #1Propelier SMOH: 682.6 :: #2 Prop ded 11 gts. of Phillips Victory SAE50 oil.	66/80 5) 66/80 6) 68/80 old valve cover insp), SB96-12 (c B17-01A (flanged nut insp.), SB20 er. Cut open filter and found no be in an airworthy condition. The be in an airworthy condition.
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Shoreline Aviation, Inc.

Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA (2050

Engine 2 Logbook

### 10/25/2023 N414MP

## Cessna 414A, serial # 414A-0317

Hobbs Hours: 1724.6 :: Aircraft TT: 5547.2 :: #1 Engine TSMOH: 94.7 :: #1Propeller SMOH: 720.3 :: #2 Propeller SMOH: 720.3 :: #2 Engine TSMOH: 94.7 :: Heater Hobbs: 613.8

Completed Operation #1 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form.

1) Cyl. Comp. Checked per TCM SB 03-03 (1) 70/80 2) 70/80 3) 70/80 4) 66/80 5) 68/80 (6) 68/80.

2) C/W the follwing TCM repetitive SB's: M90-17 (C/C Insp), SB95-2 (Control Linkage Insp), SB95-7 (Fuel Manifold value cover insp), SB96-12 (cyl Insp.), SB96-7C (Torque Values), MSB94-8D (Mag Tirning), SID97-3G (Fuel System), SB09-14 (C/S Rust) and SB17-01A (flanged nut insp.), SB20-01 (fuel screen) and noted no defects.

3) Completed 50 hr. special inspection as follows: Drained oil, added 11 qts. of Phillips X/C 20w-50 oil. Installed and saftied a new AA48108-2 oil filter. Cut open filter and found no abnormal contaminants.

Installed one new URHB32E for the LH magneto, #4 cylinder (upper spark plug).

5) Ground runup and systems functional checks completed with satisfactory results and no fuel or oil leaks noted.

I certify that this Engine has been inspected in accordance with an Operation #1 inspection and was detergined to be in an airworthy condition

			E	Edward J. Novak Jr. A+P 2832024 IA	
	A	Shoreline VIATION	Shoreline Aviation, inc.		_
			Marshfield Municipal Airport George Hartow Field (GHG) 93 Old Colony Lane	1.2	
11/14/2023 N414M	P	Cessna 414	Marsbfield. MA 02050 A. serial # 414A-0317	Engine 2 Logbook	-
Hobbs Hours: 1730.9 :: A	ircraft TT: 5553.		SMOH: 101.0 :: #2 Engine TSMO	H: 101.0	
3 torm. Adjusted this plim	p as needed per Neted in accordar	TCM SID 97-3G a nce with current ra	al # D029922BR) from Ram Aircraf and RAM ICA instructions. Functio egulations of the Federal Aviation A Signed Across Harry	mai and leak checks were normal.	
		¢		Igion A+P 1939767	
	1	1			
	A	Shoreline VIATION	Shoreline Avlation, Inc.		_
			George Harlow Field (GHG)		
3/1/2024 N414M	P	Cacena 44	93 Old Colony Lane Marshfield, MA 02050 48. parial # 4148-0317	Factor Of anti-	
3/1/2024         N414M           Hobbs Hours: 1775.2 :: /         /           770.9 :: #2 Engine TSM0         //	Aircraft TT: 5597.	.8 :: #1 Engine T	Marshfield. MA 02050 4A, serial # 414A-0317 SMOH: 145.3 :: #1Propeller SMO	Engine 2 Logbook DH: 770.9 :: #2 Propeller SMOH:	
Hobbs Hours: 1775.2 :: A 770.9 :: #2 Engine TSMC Completed Operation #2 i 1) Drained oil, added 11 of found no abnormal contan 2) Repaired one broken to 3) Ground runup and syst	Aircraft TT: 5597. OH: 145.3 :: Her inpsection items   qts. of Phillips X/ ninants. erminal end for a tems functional c	.8 :: #1 Engine T ater Hobbs: 630.5 per the Cessna 4 C 20w-50 oil. Inst n outboard prop. I thecks completed d in accordance v	Marshfield. MA 02050 4A, serial # 414A-0317 SMOH: 145.3 :: #1Propeller SMO 14A Maintenance manual progress talled and saftied a new AA48108-2 Deicer boot heating element. Func with satisfactory results and no fue with an Operation #2 inspection and	DH: 770.9 :: #2 Propeller SMOH: ive care inspection form. 2 oil filter. Cut open filter and ction check prop heat OK. el or oil leaks noted.	
Hobbs Hours: 1775.2 :: A 770.9 :: #2 Engine TSMC Completed Operation #2 i 1) Drained oil, added 11 of found no abnormal contain 2) Repaired one broken to 3) Ground runup and syst I certify that this Engine ha	Aircraft TT: 5597. OH: 145.3 :: Her inpsection items   qts. of Phillips X/ ninants. erminal end for a tems functional c	.8 :: #1 Engine T ater Hobbs: 630.5 per the Cessna 4 C 20w-50 oil. Inst n outboard prop. I thecks completed d in accordance v	Marshfield. MA 02050 4A, serial # 414A-0317 SMOH: 145.3 :: #1Propeller SMO 14A Maintenance manual progress talled and saftied a new AA48108-2 Deicer boot heating element. Fund with satisfactory results and no fue with an Operation #2 inspection and Signed MARA MARA	DH: 770.9 :: #2 Propeller SMOH: ive care inspection form. 2 oil filter. Cut open filter and ction check prop heat OK. el or oil leaks noted.	
Hobbs Hours: 1775.2 :: A 770.9 :: #2 Engine TSMC Completed Operation #2 i 1) Drained oil, added 11 of found no abnormal contan 2) Repaired one broken to 3) Ground runup and syst I certify that this Engine ha	Aircraft TT: 5597. OH: 145.3 :: Her inpsection items   qts. of Phillips X/ ninants. erminal end for a tems functional c	.8 :: #1 Engine T ater Hobbs: 630.5 per the Cessna 4 C 20w-50 oil. Inst n outboard prop. I thecks completed d in accordance v	Marshfield. MA 02050 4A, serial # 414A-0317 SMOH: 145.3 :: #1Propeller SMO 14A Maintenance manual progress talled and saftied a new AA48108-2 Deicer boot heating element. Fund with satisfactory results and no fue with an Operation #2 inspection and Signed MARA MARA	OH: 770.9 :: #2 Propeller SMOH: ive care inspection form. 2 oil filter. Cut open filter and ction check prop heat OK. el or oil leaks noted. d was determined to be in an	
Hobbs Hours: 1775.2 :: A 770.9 :: #2 Engine TSMC Completed Operation #2 i 1) Drained oil, added 11 of found no abnormal contan 2) Repaired one broken to 3) Ground runup and syst I certify that this Engine ha	Aircraft TT: 5597. OH: 145.3 :: Her inpsection items   qts. of Phillips X/ ninants. erminal end for a tems functional c	.8 :: #1 Engine T ater Hobbs: 630.5 per the Cessna 4 C 20w-50 oil. Inst n outboard prop. I thecks completed d in accordance v	Marshfield. MA 02050 4A, serial # 414A-0317 SMOH: 145.3 :: #1Propeller SMO 14A Maintenance manual progress talled and saftied a new AA48108-2 Deicer boot heating element. Fund with satisfactory results and no fue with an Operation #2 inspection and Signed MARA MARA	OH: 770.9 :: #2 Propeller SMOH: ive care inspection form. 2 oil filter. Cut open filter and ction check prop heat OK. el or oil leaks noted. d was determined to be in an	
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Hobbs Hours: 1775.2 :: A 770.9 :: #2 Engine TSMC Completed Operation #2 i 1) Drained oil, added 11 of found no abnormal contan 2) Repaired one broken to 3) Ground runup and syst I certify that this Engine ha	Aircraft TT: 5597. OH: 145.3 :: Her inpsection items   qts. of Phillips X/ ninants. erminal end for a tems functional c	.8 :: #1 Engine T ater Hobbs: 630.5 per the Cessna 4 C 20w-50 oil. Inst n outboard prop. I thecks completed d in accordance v	Marshfield. MA 02050 4A, serial # 414A-0317 SMOH: 145.3 :: #1Propeller SMO 14A Maintenance manual progress talled and saftied a new AA48108-2 Deicer boot heating element. Fund with satisfactory results and no fue with an Operation #2 inspection and Signed MARA MARA	OH: 770.9 :: #2 Propeller SMOH: ive care inspection form. 2 oil filter. Cut open filter and ction check prop heat OK. el or oil leaks noted. d was determined to be in an	
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TOTALS—Carry forward to next page

H: T: C 1) 2) (7 ar	SMOH: 198. ompleted Op Cyl. Comp	4 :: Heater Ho peration #3 & #	obbs: 632.7	:: #1 Engine TSM	George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 sna 414A, serial # 414A-0317 IOH: 198.4 :: #1Propeller SMOH: 824.0 :: #2 F	Engine 2 Logbo Propeller SMOH: 824.0 :: #2 Engine
H: T: C 1) 2) (7 ar	obbs Hours: SMOH: 198. ompleted Op Cyl. Comp	1828.3 :: Airo 4 :: Heater Ho peration #3 & #	obbs: 632.7	:: #1 Engine TSM	sna 414A, serial # 414A-0317	
T: C: 1) 2) (7 ar 3)	SMOH: 198. ompleted Op Cyl. Comp	4 :: Heater Ho peration #3 & #	obbs: 632.7		OH: 198.4 :: #1Propeller SMOH: 824.0 :: #2 P	Propeller SMOH: 824.0 :: #2 Engine
1 4	nd noted no Completed ter, Cut ope Lostalled 1	es), MSB94-8D defects. 1 50 hr. special en filter and four 0 new URHB32	TCM SB 03-03 petitive SB's: SB (Mag Timing), S inspection as fol- nd no abnormal i 2E spark plugs (a	t) 60/80 2) 68/80 3 95-2 (Control Link ID97-3G (Fuel Sy Iows: Drained oil, contaminants. Il but #2 & #4 upp	414A Maintenance manual progressive care ins 3) 58/80 4) 68/80 5) 60/80 6) 62/80. age Insp), SB95-7 (Fuel Manifold valve cover ins stem), SB09-14 (C/S Rust) and SB17-01A (flang added 11 qts. of Phillips X/C 20w-50 oil. Installe er).	ap), SB96-12 (cyl Insp.), SB96-7C ed nut insp.), SB20-01 (fuel screen)
5)	LH header Ground ru	r pipe assembly nup and system	replaced with a ns functional che	new unit from Aer cks completed wit	ospace Welding (part # A9910295-13). h satisfactory results and no fuel or oil leaks note an Operation #3 & #4 inspection, and was deter	mined to be in an airworthy condition
					Signed <u>Calivary</u> A Edward J. N	Novak Jr. A+P 2832024 IA
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					SUB-TOTALS this page	

N414MP

09/13/2024

# AD NOTES COMPLIANCE RECORD

Engine - Continental Motors - TSIO-520-NB

Propeller - Hartzell - ( )HC-( )( )Y( )

m/n: PHC-C3YF-2UF

s/n: 519264

s/n: EB7629B

Appliance - Connecting Rods - Engine Components Incorporated (ECi)

Appliance - Governors - McCauley

Appliance - Magnetos - Slick

Appliance - Cylinder assembly - Superior Air Parts

AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
2006-10-21	CORRECTION - To prevent fatigue failure of the connecting rod and a possible uncommanded shutdown of the engine.		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
75-12-07	McCauley governors		DNA per part #.	x			Ed Novak A+P 2832024 IA
2020-19-06	Idler Gear Bearing Unapproved Variant		DNA per date of governor O/H.	x			Ed Novak A+P 2832024 IA
74-18-05	Slick magnetos		DNA per part serial #.		x		Ed Novak A+P 2832024 IA
80-06-05	Slick magnetos		DNA per part serial #.	x			Ed Novak A+P 2832024 IA
81-16-05	Slick magnetos		DNA per part serial #.	x			Ed Novak A+P 2832024 IA
99-04-04	Magneto impulse coupling		DNA per engine model #.		x		Ed Novak A+P 2832024 IA
2011-26-07	To prevent engine failure due to migration of the magneto impulse coupling stop pin		DNA per engine model #.		x		Ed Novak A+P 2832024 IA
97-01-04	Cylinder assemblies		DNA per eng. Model #.		x		Ed Novak A+P 2832024 IA
2007-04-19	To prevent cylinder separation that can lead to engine failure		Superseded by R1.		x		Ed Novak A+P 2832024 IA
2007-04-19R1	To prevent cylinder separation that can lead to engine failure		DNA per cylinder part #'s & s/n's.		x		Ed Novak A+P 2832024 IA
78-06-01 R2	Flexible intake elbow		DNA per engine model #.		x		Ed Novak A+P 2832024 IA
79-05-09	Oil pressure relief valve	3/14/23 - 0 SMOH	C/W by RAM during engine O/H.	×			Ed Novak A+P 2832024 IA
30-01-04	Cylinder holddown flanges		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
31-24-06	Fuel pump		DNA per date of installation.		x		Ed Novak A+P 2832024 IA

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AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
82-09-01	Fuel pressure regulator leaks		DNA per engine S/N.	x			Ed Novak A+P 2832024 IA
86-13-04 R3	Cylinder assemblies		DNA - affected component not installed.		x		Ed Novak A+P 2832024 IA
87-23-08	Crankshaft fatigue cracks		Superseded by 97-26-17.		x		Ed Novak A+P 2832024 IA
88-03-06	Oil filter		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
89-24-01 R1	Scavenge oil pump gears	3/14/23 - 0 TSMOH	C/W by RAM during engine O/H.	x			Ed Novak A+P 2832024 IA
91-19-03	Champion oil filter		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
93-08-17	Incorrect oil pick-up tube		DNA per engine model #.	x			Ed Novak A+P 2832024 IA
93-10-02	Cylinder valve retainer		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
93-16-15	Fuel pumps	3/14/23 - 0 TSMOH	C/W by RAM during engine O/H.	x			Ed Novak A+P 2832024 IA
94-14-12	Low octane detonation		Superseded by 95-21-15.	x			Ed Novak A+P 2832024 IA
95-21-15	Engine teardown and analytical inspect.		DNA per date of installation.	x			Ed Novak A+P 2832024 IA
97-26-17	CORRECTION - Crankshaft fatigue cracks	3/14/23 - 0 TSMOH	C/W by RAM during engine O/H.		x	Next O/H or crankshaft removal	Ed Novak A+P 2832024 IA
PL98-01-08	Exhaust roller rocker arms		DNA - affected component not installed.	x			Ed Novak A+P 2832024 IA
PL99-09-17	Crankshaft failure		Superseded by 99-19-01.	x			Ed Novak A+P 2832024 IA
99-19-01	Crankshaft failure		DNA per date of installation.	x			Ed Novak A+P 2832024 IA
PL2000-08-51	Crankshaft connecting rod journal fracture		Superseded by 2000-23-21.		x		Ed Novak A+P 2832024 IA
2000-23-21	Fracture of the crankshaft connecting rod journal		DNA per date of mfg.	x			Ed Novak A+P 2832024 IA
2004-08-10	Prevent loss of engine power		DNA per date of mfg.	x			Ed Novak A+P 2832024 IA
2009-16-03	To prevent the separation of the cylinder head		Superseded by 2014-05-29.		x		Ed Novak A+P 2832024 IA
2009-19-07	Correction - To prevent loss of engine power due to cracks in the cylinder head, possible engine failure, and fire in the engine compartment		DNA - affected component not installed.		x		Ed Novak A+P 2832024 IA
2009-24-51	To address rapid wear on the face of hydraulic lifters		Superseded by 2009-24-52.		x		Ed Novak A+P 2832024 IA

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AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
2009-24-52	To address rapid wear on the face of hydraulic lifters		Superseded by 2010-11-04.		x		Ed Novak A+P 2832024 IA
2010-11-04	To prevent excessive hydraulic lifter wear		DNA - affected component not installed.		x		Ed Novak A+P 2832024 IA
2011-25-51	To address fractures in starter adapter shaft gears		Superseded by 2012-10-13.	x			Ed Novak A+P 2832024 IA
2012-03-06	To prevent an in-flight shutdown due to a failed fuel servo diaphragm		DNA - affected component not installed.		x		Ed Novak A+P 2832024 IA
2012-10-13	To prevent starter adapter gear shaft failure		DNA per part #.		x		Ed Novak A+P 2832024 IA
2014-05-29	Superior Air Parts Investment Cast Cylinder Assemblies		DNA - affected component not installed.		x		Ed Novak A+P 2832024 IA
2022-04-04	STC Stratus Oil Filter Adapter Fiber Gasket Oil Loss		Superseded by 2023-17-04.	x			Ed Novak A+P 2832024 IA
2022-16-03	S-1200 Series Magnetos Roller Bearings Improper Lubricatio		N/A - affected item not installed.	x			Ed Novak A+P 2832024 IA
2023-02-12	Intake Valve Failures		DNA per cylinder s/n's.	x			Ed Novak A+P 2832024 IA
2023-04-08	Crankshaft Assembly Counterweight Retaining Rings in the Counterweight Groove		Superseded by 2023-05-16.	x			Ed Novak A+P 2832024 IA
2023-05-16	Improper Installation of Counterweight Retaining Rings		DNA - engine serial number. DNA - engine not assembled at TCM factory.	x			Ed Novak A+P 2832024 IA
2023-17-04	STC F&M or Stratus Oil Filter Adapter Fiber Gasket Oil Loss		N/A - affected STC not installed.	x			Ed Novak A+P 2832024 IA
77-12-06 R2	Prop blade		Superseded by 2002-09-08.		x		Ed Novak A+P 2832024 IA
2001-07-03	CORRECTION - Prevent propeller failure of the propellers returned to service by BASCO		DNA - propeller not returned to service by BASCO.	x			Ed Novak A+P 2832024 IA
2001-23-08	Prevent failure of the propeller hub resulting from cracks		DNA per date of mfg.		x		Ed Novak A+P 2832024 IA
2002-09-08	Prevent failure of the propeller blade from fatigue cracks		Superseded by 2007-26-09.	x			Ed Novak A+P 2832024 IA
2003-01-03	Prevent in-flight propeller blade separation		DNA per date of mfg.	x			Ed Novak A+P 2832024 IA
2003-03-20	Prevent fatigue failure of the original propeller hub and blades		DNA per model #.	x	1		Ed Novak A+P 2832024 IA
2003-13-17	Maintenance by T&W Propellers Inc.		DNA - propeller is O.E.M.	x	$\uparrow$		Ed Novak A+P 2832024 IA
2005-14-11	Maintenance by Southern California Propeller Service		DNA - propeller is O.E.M.	×	$\left  \right $		Ed Novak A+P 2832024 IA
2006-18-15	To prevent failure of the propeller hub causing blade separation and subsequent loss of airplane control		Superseded by 2009-22-03.		x		Ed Novak A+P 2832024 IA

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AD#	Applicable S.B. # & Subject	Date & Hours @ Comp.	Method of Compliance		Recurring	Next Comp. @ Hrs/Date	Authorized Signature & Number
2006-24-07	To detect unsafe conditions that could result in a propeller blade separating from the hub and loss of control of the airplane		DNA - propeller is O.E.M.	2	<		Ed Novak A+P 2832024 IA
2007-26-09	To prevent failure of the propeller blade from fatigue cracks in the blade shank radius		DNA per date of mfg.	2	×		Ed Novak A+P 2832024 IA
2008-13-28	To prevent failure of the propeller hub		DNA - propeller is NOT LH rotating.		X		Ed Novak A+P 2832024 IA
2009-22-03	To prevent failure of the propeller hub causing blade separation and subsequent loss of airplane control		DNA per part serial #.		X		Ed Novak A+P 2832024 IA

# N414MP RH Eng. SB's Date: 8/1/24 Hobbs: 1828.3 ACTT: 5650.9 TSMOH: 198.4 Eng. M/N: TSIO-520-NB Serial #: 519264

Item	Bulletin	Bulletin	Bulletin	Date	
	No.	Description	Date	Completed	Remarks
<u>#</u> 1	M67-12	Overboost - Engine	5/31/1967		Due if MAP goes 6" over redline
2	M70-11	Slick SB # 1-70	6/22/1970		DNA - Magneto M/N
3	M71-14	Slick SB # 1-71	6/21/1971		DNA - Magneto M/N
4	M71-21	Turbo Shaft Insp.	11/22/1971		Information Only
5	M72-17R1	Max Allowable Piston/Rod Weight Difference	10/5/1973		Information Only
6	M74-18	Slick S.B. 1-74	9/16/1974		DNA - Magneto M/N
7	M75-6R1	Model Conversion	6/4/1975		Information Only
8	M75-30	Prestolite Alternators	12/19/1975		DNA - not installed
9	M76-4	Crankcase Oil Seal Installation	3/12/1976	3/14/23 - 5425.5	Due at C/S oil seal change
10	M76-5R1	Remote Mounted Oil Coolers	5/25/1976		DNA - No Remote Oil Cooler
11 12	M77-3 M77-9	Fuel Alternate Grades Thru Bolt Change	1/11/1977 3/16/1977		Infomation Only DNA - already incorporated
12	M78-6	R+R of Rosan Exh. Studs	3/3/1978		Due during Exh. Stud R+R
14	M78-5R3	Flexible Elbow p/n 635930	10/23/1978		DNA - Engine M/N
15	M78-16	#2 Cyl. Intake Elbow p/n 629138	11/29/1978		DNA - Engine M/N
16	M80-10	R+R of Some 642232 Elbows	3/28/1980		C/W by RAM during O/H
17	M81-16	AiResearch S.L. TP61-0043-2	7/27/1981		DNA - RAM O/H Turbo
18	M81-19	Availability of New Flex Elbows	8/5/1981		DNA - RAM Elbows Installed
19	M81-25	Exhaust Flange to Cyl. Installation	11/30/1981	3/14/23 - 5425.5	Superseded by SB14-8
20	M83-5	Slick S.B. 3-82	3/7/1983		DNA - Magneto M/N
21	M83-6	Slick S.B. 2-82	3/7/1983		DNA - Magneto M/N
22	M81-4R1	Airesearch S.L. TP61-0046	4/29/1983		DNA per Date of O/H
23	M81-15R1	Prestolite Alternators	6/16/1983		DNA - not installed
24	M84-5	Gear Driven Alter. Insp.	2/13/1984		Due @ any alternator malfunction
25	M84-8	Mag Timing Indicator Plate	6/19/1984		DNA - No Timing Plate Installed
26	M84-13	Slick S.B. 1-84	10/27/1984		DNA - Magneto M/N
27 28	M85-9R1	Piston to Cyl. Dome Clearance	8/6/1985 7/18/1985	3/14/23 - 5425.5	DNA - ECI Cyls. Installed
20 29	M85-10 M86-4	Cyl. Hold Down Nuts Fuel Pumps	1/9/1986	3/14/23 - 3423.3	C/W by RAM During O/H Due if fuel pump press. Wanders
30	M86-13R1	Cam Plug Insp.	10/17/1986		DNA per Date of O/H
31	M86-14	Camshaft 629726 Rework	10/1/1986		DNA - RAM Cam Installed
32	M87-15	Alternator Ground Strap	7/13/1987	3/14/23 - 5425.5	Due at eng. or alter. Replacement
33	M87-16	Slick S.B. SB1-86A	8/14/1987	0, 1, 1, 20 0, 12010	DNA - Magneto M/N
3	M87-23	C/S Counterweights ID @ O/H	11/24/1987	3/14/23 - 5425.5	C/W by RAM During O/H
4	M88-4	TCM Oil Filters AD 88-03-06	1/15/1988		DNA - Not Installed
35	M88-9	Lightning Strikes	8/24/1988		Due at any lightning strike
36	M88-10	Contaminated Fuels	8/24/1988		Due when wrong fuel is used
37	M89-7 R1	Eng. Ops. After O/H or Cyl. R+R	8/4/1989	3/14/23 - 5425.5	C/W by RAM During O/H
38	M89-9	Excessive Crankcase Pressures	4/21/1989		Information Only
39	M89-18	EGT Recommendations	8/10/1989		EGT Information
40	M90-6	Scavenge Pump Gears	2/26/1990	3/14/23 - 5425.5	C/W by RAM during O/H
41	M90-13	Exh. Valve Stem Corr./Erosion	7/16/1990	2/4 4/22 5425 5	Due at any access to exh. Valves
42 43	M90-16	7th Stud Improvement C/C Insp. Criteria	8/22/1990 8/23/1990	3/14/23 - 5425.5 N/A RAM C/C	C/W by RAM during O/H Due at each 100 hr. Insp.
43 44	M90-17 M91-4	Piston to Ring Application	2/11/1991		Due at any piston ring change
44	M91-4	Cyl. Barrel Ultrasonic Insp.	3/20/1991	3/14/23 - 3423.3	DNA - affected Cyls. NOT Installed
46	M91-6	Cyl. Barrel Insp.	3/20/1991		DNA - affected Cyls. NOT Installed
47	M91-9	Cam & Lifter Lube During Build	8/9/1991	3/14/23 - 5425.5	C/W by RAM during O/H
48	M92-6	Rockershaft Retention Improvement	2/28/1992	3/14/23 - 5425.5	C/W by RAM during O/H
49	M92-7	Deck Studs	5/26/1992	3/14/23 - 5425.5	C/W by RAM during O/H
50	M92-9	Flanged Thru-Bolt p/n 652541	5/29/1992	3/14/23 - 5425.5	C/W by RAM during O/H
51	M92-12	Alternator Thru-Bolt Insp.	8/27/1992		DNA per Alter. S/N
52	M92-14	Modine Oil Coolers	9/9/1992		DNA per Oil Cooler P/N
53	M93-4	C/S Counterweights	2/12/1993	3/14/23 - 5425.5	7/22/13 - 4054.7
54	M93-8	Rocker Arm to Rotocoil Clearance	2/19/1993	3/14/23 - 5425.5	C/W by RAM during O/H
55 56	M93-5	Chamfer of Oil Feed Holes	2/19/1993	12/2/22 - 5452.5	C/W by RAM during O/H
56 57	M93-10	TCM Ign. SB No. 639	3/1/1993		DNA - No Impulse Couplings
57 58	MSB93-12	Valve Retainer Key Insp. AD 93-10-02	5/12/1993		DNA - Eng. S/N
58 59	CSB94-1 SB94-2	TCM Ign. SB No. 641 AD94-06-09 Oil Filter adapter Mounting Stud	2/1/1994	3/14/23 - 5425.5	DNA - Slick Mags Installed C/W by RAM during O/H
59 60	SB94-2 SB94-11	Oil Pump Gasket	2/10/1994 11/14/1994	3/14/23 - 5425.5	C/W by RAM during O/H
61	CSB94-11 CSB94-15	C/C Stud Insp.	12/2/1994	JI 17/20 - J42J.J	DNA - Eng. S/N
62	SB95-2	Insp.& Maint. Of Eng. Con. & Linkage	4/21/1995	8/1/24 - 5650.9	Due at ea. 100 hr. Or linkage work
63	MSB95-6	Fuel Pump Drive Coupling	10/19/1995	3/14/23 - 5425.5	C/W by RAM during O/H
64	SB95-7	Manifold valve Cover Insp.	12/8/1995	8/1/24 - 5650.9	Due ea. 100 hr. Or FF fluctuation
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# N414MP RH Eng. SB's Date: 8/1/24 Hobbs: 1828.3 ACTT: 5650.9 TSMOH: 198.4 Eng. M/N: TSIO-520-NB Serial #: 519264

65	SB96-3B	C/S Gear Bolt Insp.			C/W by RAM during O/H
66	MSB96-10A	•	10/14/2008	3/14/23 - 5425.5	C/W by RAM during O/H
67	M90-14	Champion Action Alert 90-1	8/7/1990		DNA - effected part not installed
68	SB96-12	Continued A.W. Instr. For TCM Cyls.	9/10/1996		DNA - ECI Cyls. Installed
69	SB96-3B	C/S Gear Bolt Insp.	10/14/1996		DNA per Date of Mfg.
70		Piston Pin Plug Wear AD 97-21-02	7/15/1997		DNA - Eng. S/N
71	SB97-11	Single Piece Rocker Bushing	8/10/1997		DNA - RAM Engines
72	SB97-15				DNA - No Affected switch installed
		TCM Ign. SB 660	12/5/1997		
73	CSB98-1B	Intake & Exh. Valve insp.	6/1/1998		DNA per Date of Mfg.
74	MSB99-3C	C/S Inspection AD 99-09-17	7/27/1999		DNA per Date of Mfg. & C/S S/N
75	SB99-8	Fuel Injection System Preservation	11/18/1999		DNA - RAM O/H
76	SB00-4A	Australian Avgas Contamination	3/7/2000		DNA - Eng. Not operated in Australia
77	SB00-10	Fuel Pump Seal 649198	12/19/2000	3/14/23 - 5425.5	C/W by RAM During O/H
78	CSB01-01	Fuel Pump Insp. And Seal Leak Test	4/25/2001		DNA per Date of Mfg.
78a	SIL00-7B	Oil Gage Rod Application	6/19/2017		Due when oil gage rod (dipstick) is replaced
79	MSB00-5D	Crankshaft Inspection AD 00-23-21	10/17/2001		DNA - Eng. S/N
80	CSB02-8	Ignition CSB 664	9/6/2002		DNA per Magnetos S/N's
	SB01-3A	5		3/14/23 - 5425.5	
81		TCM Gear Driven Alternators	12/10/2002		Due @ next Alter. O/H or R+R
82	CSB02-2C	Str. Adapter Shaft Seal Insp.	12/11/2002	3/14/23 - 5425.5	, ,
83	SB03-3	Cyl. Comp. Check procedures	3/28/2003	8/1/24 - 5650.9	Due at each 100 hr. or annual insp.
84	CSB04-5A	Ign. S.B. 665A	8/30/2004		DNA - Slick Mags Installed
85	SB04-11	Valve Guide Install & Reaming Procedures	11/2/2004		DNA - ECI Cyls. Installed
86	SB04-10	Piston Position Marking	10/26/2004	3/14/23 - 5425.5	Due @ ea. Piston R+R
87	SB00-3A	C/S, Rod & Counterweight Repair Info.	10/29/2004	3/14/23 - 5425.5	C/W by RAM During O/H
88	SB05-2	Overspeed Limitations	1/31/2005		Due @ any C/S Overspeed
89	SB96-7D	Torque Limits	8/11/2015	8/1/24 - 5650.9	Due during all Maintenance
90	CSB05-8D	Improved Cam Gear p/n 656818	8/22/2018	3/14/23 - 5425.5	C/W by RAM During O/H
				3/14/23 - 3423.3	
91	SB05-9	Slick S.B. SB1-88B	10/20/2005		DNA to this A/C Model
92	SB06-1A	TCM Fuel Nozzle Insp. & R+R	4/28/2006		DNA - RAM Nozzles are Installed
93	CSB07-01A	0 1	9/2/2020	3/14/23 - 5425.5	Due @ any Cyl. R+R
94	MSB94-8D	Mag to Eng. Timing	2/17/2010	8/1/24 - 5650.9	Due at each 100 hr. or mag work
95	SB07-8	Recommended RPM & MAP Settings	11/2/2007	2/20/09 - 4176.0	Information & Recommendations
96	SB08-3A	Thr. & Mix. Control Arms	7/30/2010		Due whenever bronze arm is R+R
97	SB08-4	Fuel Injection System Contamination	2/25/2000	3/14/23 - 5425.5	Due @ any Eucl System Component B+B
			3/23/2000	3/14/23 = 3423.3	
			3/25/2008 10/21/2015		Due @ any Fuel System Component R+R Due @ O/H ea 100 hrs etc
98	SID97-3G	Fuel System Adjustment Procedures	10/21/2015	8/1/24 - 5650.9	Due @ O/H, ea. 100 hrs., etc.
98 99	SID97-3G SB08-8B	Fuel System Adjustment Procedures Slick S.B. SB2-08	10/21/2015 4/10/2009		Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's
98 99 100	SID97-3G SB08-8B SB96-11B	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks	10/21/2015 4/10/2009 7/10/2008	8/1/24 - 5650.9	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock
98 99 100 101	SID97-3G SB08-8B SB96-11B SB97-6B	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts	10/21/2015 4/10/2009 7/10/2008 11/18/2009	8/1/24 - 5650.9 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance
98 99 100 101 102	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015	8/1/24 - 5650.9	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair
98 99 100 101 102 103	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's
98 99 100 101 102	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 10/14/2008	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R
98 99 100 101 102 103	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35
98 99 100 101 102 103 104	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 10/14/2008	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R
98 99 100 101 102 103 104 105	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 10/14/2008 8/21/2015	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days
98 99 100 101 102 103 104 105 106 107	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 10/14/2008 8/21/2015 3/25/1999 8/18/2009	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed
98 99 100 101 102 103 104 105 106 107 108	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO
98 99 100 101 102 103 104 105 106 107 108 109	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s
98 99 100 101 102 103 104 105 106 107 108 109 110	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-8A	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H
98 99 100 101 102 103 104 105 106 107 108 109 110 111	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-8A SB09-14	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-8A SB09-14 CSB09-11A	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 11/12/2014	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-8A SB09-14 CSB09-11A SB09-7	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 11/12/2014 7/16/2009	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-8A SB09-14 CSB09-11A SB09-7 SB09-14	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr.
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-8A SB09-14 CSB09-11A SB09-7	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 5/18/2010	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-8A SB09-14 CSB09-11A SB09-7 SB09-14	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr.
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-14 CSB09-11A SB09-7 SB09-14 CSB 668	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 5/18/2010	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-14 CSB09-14 CSB09-14 CSB09-7 SB09-14 CSB 668 SIL04-12A MSB10-3	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate TCM Authorized Adjustments Kelly SB 039A AD 2010-07-08	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 10/16/2009 5/18/2010 5/18/2010	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK Due as needed - see bulletin 3/14/23 - 5425.5
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-14 CSB09-14 CSB09-14 CSB 668 SIL04-12A MSB10-3 SID10-4	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate TCM Authorized Adjustments Kelly SB 039A AD 2010-07-08 Volcanic Ash Contamination	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 5/18/2010 5/18/2010 5/18/2010 7/21/2010	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7 8/1/24 - 5650.9	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK Due as needed - see bulletin 3/14/23 - 5425.5 DNA-no ash contamination occurred
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-1B SB09-14 CSB09-14 CSB09-14 CSB 668 SIL04-12A MSB10-3 SID10-4 SB11-3	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate TCM Authorized Adjustments Kelly SB 039A AD 2010-07-08 Volcanic Ash Contamination Alter. Drive Coupling Installation	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 10/16/2009 5/18/2010 5/18/2010 5/18/2010 7/21/2010 3/18/2011	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due @ to 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK Due as needed - see bulletin 3/14/23 - 5425.5 DNA-no ash contamination occurred Due @ ea. Access to coupling
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-1B SB09-14 CSB09-14 CSB09-14 CSB 668 SIL04-12A MSB10-3 SID10-4 SB11-3 CSB08-3C	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate TCM Authorized Adjustments Kelly SB 039A AD 2010-07-08 Volcanic Ash Contamination Alter. Drive Coupling Installation Remove Bronze Levers from Service	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 10/16/2009 5/18/2010 5/18/2010 5/18/2010 3/18/2011 7/7/2013	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7 8/1/24 - 5650.9	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK Due as needed - see bulletin 3/14/23 - 5425.5 DNA-no ash contamination occurred Due @ ea. Access to coupling Found PCW
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-14 CSB09-14 CSB09-14 CSB09-14 CSB09-14 SB09-7 SB09-14 CSB 668 SIL04-12A MSB10-3 SID10-4 SB11-3 CSB08-3C SID97-4F	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate TCM Authorized Adjustments Kelly SB 039A AD 2010-07-08 Volcanic Ash Contamination Alter. Drive Coupling Installation Remove Bronze Levers from Service Cyl. Bore & Piston Fit Specs.	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 10/16/2009 10/16/2009 5/18/2010 5/18/2010 5/18/2010 5/18/2010 3/18/2011 7/7/2013 8/13/2014	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7 8/1/24 - 5650.9	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK Due as needed - see bulletin 3/14/23 - 5425.5 DNA-no ash contamination occurred Due @ ea. Access to coupling Found PCW DNA - ECI Cyls. Installed
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-18 SB09-14 CSB09-14 CSB09-14 CSB 668 SIL04-12A MSB10-3 SID10-4 SB11-3 CSB08-3C SID97-4F SB13-4C	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate TCM Authorized Adjustments Kelly SB 039A AD 2010-07-08 Volcanic Ash Contamination Alter. Drive Coupling Installation Remove Bronze Levers from Service Cyl. Bore & Piston Fit Specs. Aneroid Equipped Fuel Pumps	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 10/16/2009 10/16/2009 5/18/2010 5/18/2010 5/18/2010 5/18/2010 3/18/2011 7/21/2013 8/13/2014 11/7/2016	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7 8/1/24 - 5650.9	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK Due as needed - see bulletin 3/14/23 - 5425.5 DNA-no ash contamination occurred Due @ ea. Access to coupling Found PCW DNA - ECI Cyls. Installed
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-18 SB09-14 CSB09-14 CSB09-14 CSB 668 SIL04-12A MSB10-3 SID10-4 SB11-3 CSB08-3C SID97-4F SB13-4C MSB13-7	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate TCM Authorized Adjustments Kelly SB 039A AD 2010-07-08 Volcanic Ash Contamination Alter. Drive Coupling Installation Remove Bronze Levers from Service Cyl. Bore & Piston Fit Specs. Aneroid Equipped Fuel Pumps H.E.T. Bulletin 048, rev. 1	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 10/16/2009 10/16/2009 5/18/2010 5/18/2010 5/18/2010 3/18/2011 7/21/2013 8/13/2014 11/7/2016 1/15/2014	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7 8/1/24 - 5650.9 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK Due as needed - see bulletin 3/14/23 - 5425.5 DNA-no ash contamination occurred Due @ ea. Access to coupling Found PCW DNA - ECI Cyls. Installed DNA per ong. m/n
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-8A SB09-14 CSB09-11A SB09-7 SB09-14 CSB 668 SIL04-12A MSB10-3 SID10-4 SB11-3 CSB08-3C SID97-4F SB13-4C MSB13-7 SIL 13-2A	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate TCM Authorized Adjustments Kelly SB 039A AD 2010-07-08 Volcanic Ash Contamination Alter. Drive Coupling Installation Remove Bronze Levers from Service Cyl. Bore & Piston Fit Specs. Aneroid Equipped Fuel Pumps H.E.T. Bulletin 048, rev. 1 Alternator ICA's	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 10/16/2009 10/16/2009 5/18/2010 5/18/2010 5/18/2010 5/18/2010 3/18/2011 17/7/2013 8/13/2014 11/7/2016 1/15/2014	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7 8/1/24 - 5650.9	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK Due as needed - see bulletin 3/14/23 - 5425.5 DNA-no ash contamination occurred Due @ ea. Access to coupling Found PCW DNA per log //s installed DNA per ng. m/n Due during Alternator Maintenance
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-18 SB09-14 CSB09-14 CSB09-14 CSB 068 SIL04-12A MSB10-3 SID10-4 SB11-3 CSB08-3C SID97-4F SB13-4C MSB13-7 SIL 13-2A SID 05-1A	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate TCM Authorized Adjustments Kelly SB 039A AD 2010-07-08 Volcanic Ash Contamination Alter. Drive Coupling Installation Remove Bronze Levers from Service Cyl. Bore & Piston Fit Specs. Aneroid Equipped Fuel Pumps H.E.T. Bulletin 048, rev. 1 Alternator ICA's Insp. Guidelines for Cams & Lifters	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 10/16/2009 10/16/2009 5/18/2010 5/18/2010 5/18/2010 5/18/2010 3/18/2011 7/7/2013 8/13/2014 11/7/2016 1/15/2014 5/2/2014	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7 8/1/24 - 5650.9 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK Due as needed - see bulletin 3/14/23 - 5425.5 DNA-no ash contamination occurred Due @ ea. Access to coupling Found PCW DNA per num s/n's installed DNA per eng. m/n Due during Alternator Maintenance Due & access to Cam and/or Lifters
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-8A SB09-14 CSB09-11A SB09-7 SB09-14 CSB 668 SIL04-12A MSB10-3 SID10-4 SB11-3 CSB08-3C SID97-4F SB13-4C MSB13-7 SIL 13-2A	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate TCM Authorized Adjustments Kelly SB 039A AD 2010-07-08 Volcanic Ash Contamination Alter. Drive Coupling Installation Remove Bronze Levers from Service Cyl. Bore & Piston Fit Specs. Aneroid Equipped Fuel Pumps H.E.T. Bulletin 048, rev. 1 Alternator ICA's	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 10/16/2009 10/16/2009 5/18/2010 5/18/2010 5/18/2010 5/18/2010 3/18/2011 17/7/2013 8/13/2014 11/7/2016 1/15/2014	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 12/1/13 - 4054.7 8/1/24 - 5650.9 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK Due as needed - see bulletin 3/14/23 - 5425.5 DNA-no ash contamination occurred Due @ ea. Access to coupling Found PCW DNA per log //s installed DNA per ng. m/n Due during Alternator Maintenance
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98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 120 121 122 123 124 125 126 127 128	SID97-3G SB08-8B SB96-11B SB97-6B MSB96-10B CSB08-9A SB08-13 SIL98-9E SIL 99-1 MSB09-1B SB08-12 CSB10-2 MSB09-14 CSB09-14 CSB09-14 CSB09-14 CSB09-14 CSB 068 SIL04-12A MSB10-3 SID10-4 SB11-3 CSB08-3C SID97-4F SB13-4C MSB13-7 SIL 13-2A SID 05-1A MSB14-3 SB14-5 SIL99-2C	Fuel System Adjustment Procedures Slick S.B. SB2-08 Prop. Strikes & Hyd. Locks Mandatory Repl. Parts C/S Ultrasonic Insp. AD 97-26-17 Slick S.B. SB03-8A Induction Hose Clamp Installation Recommended TBO Eng. preservation for active/stored aircraft Cylinder Replacement Crankshaft Gear Supersedure Kelly T-Wheel Replacement TCM Hydraulic Lifters C/S Corrosion Treatment Minimum Cruise RPM Limits Push Rod Seal Leakage C/S Rust Treatment Ign. Harness Attach Plate TCM Authorized Adjustments Kelly SB 039A AD 2010-07-08 Volcanic Ash Contamination Alter. Drive Coupling Installation Remove Bronze Levers from Service Cyl. Bore & Piston Fit Specs. Aneroid Equipped Fuel Pumps H.E.T. Bulletin 048, rev. 1 Alternator ICA's Insp. Guidelines for Cams & Lifters H.E.T. Bulletin # 057 H.E.T. Bulletin # 059 Authorized Sealants, Lubes & Adhesives	10/21/2015 4/10/2009 7/10/2008 11/18/2009 8/10/2015 10/14/2008 8/21/2015 3/25/1999 8/18/2009 9/9/2008 1/22/2010 12/14/2009 10/16/2009 10/16/2009 10/16/2009 5/18/2010 5/18/2010 5/18/2010 5/18/2010 5/18/2010 3/18/2011 7/7/2013 8/13/2014 11/5/2014 1/15/2014 5/2/2014 5/2/2014 5/2/2014	8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5 8/1/24 - 5650.9 3/14/23 - 5425.5 3/14/23 - 5425.5 3/14/23 - 5425.5	Due @ O/H, ea. 100 hrs., etc. DNA - Magneto S/N's Due at any prop. Strike or hyd. Lock Due at O/H & all eng. maintenance C/W by RAM During Metal Contam. Repair DNA - Magneto S/N's Due @ ea. Induction Hose Clamp R+R Due at 7025.2 hrs or 03/31/35 Due if A/C is inactive for > 30 days DNA - no affected cyls. Installed Due @ next access or TBO DNA per Turbo Serial #'s DNA per date of O/H Due if rust is noted on C/S Owner Advised DNA per date of O/H Due ea. 100 hr. One time insp. completed OK Due as needed - see bulletin 3/14/23 - 5425.5 DNA-no ash contamination occurred Due @ ea. Access to coupling Found PCW DNA - ECI Cyls. Installed DNA per pump s/n's installed DNA per nor pump s/n's installed DNA per Turbo s/n's DNA per Turbo s/n's DNA per Turbo s/n's DNA per Alter. s/n Due during all Maintenance

# N414MP RH Eng. SB's Date: 8/1/24 Hobbs: 1828.3 ACTT: 5650.9 TSMOH: 198.4 Eng. M/N: TSIO-520-NB Serial #: 519264

132	SB15-6B	NiC3 Cylinders	8/9/2018		Applies if these cylinders are installed - none are
133	SIL16-2	Standard Practices Manual	4/15/2016	8/1/24 - 5650.9	Due during all Maintenance
134	SB16-7	H.E.T. Bulletin \$ 067	2/3/2017		DNA per eng. m/n
135	SB16-6	Engine Kickback Damage	10/19/2016		Due when kickback occurs
136	SB16-8	Turbo Exh. Transition	2/3/2017		DNA per Eng. m/n
137	SB16-9	H,E.T. Bulletin # 066	2/3/2017		DNA per Alter. p/n
138	SB17-01A	Flanged Nut (652541) Insp & Corr. Prev.	10/20/2017		DNA Due to nut installed at O/H
139	SB 670	TCM Magnetos Maint.	7/14/2017		DNA - Slick Mags Installed
140	SIL17-02	Turbo Check Valve Filter Insp. & Cleaning	7/12/2017		DNA per Eng. M/N
141	SIL17-03	Oil Filter Anti-stick Gasket	7/27/2017		Info. Only
142	SB17-04	TCM SB 670 - R+R of Dist. Block	7/17/2017		DNA - Slick Mags Installed
143	SB17-05	TCM SB 643C - Insp. Intervals	9/29/2017		DNA - Slick Mags Installed
144	SB17-06	Conn. Rod Bolt Insp.	10/20/2017	3/14/23 - 5425.5	Due at Connecting Rod Bolt Install
145	SIL 17-07	Discontinued Alternator	11/14/2017		Info. Only
146	SB18-04A	R+R of Flanged Nut	12/18/2018		DNA per Date
147	SIL 18-02	Service Documents Applicability	2/15/2018		Info. Only
148	SIL19-04	Oil Brand Selection	10/11/2019		Info. Only
149	SB19-05	Valve Guide Application	10/24/2019	3/14/23 - 5425.5	Due @ O/H or Cyl. Repair
150	CSB19-06	Hartzell Alert SB 081A (Alter. Hub Nut) COMPLE	11/19/2019	9/13/21 - 5233.6	See SB for affected Units
151	SB19-07	C/S End Play	12/10/2019		DNA per Eng. S/N
152	SIL19-10	Oil Filter Removal	12/16/2019		Info. Only
153	SB20-01	Fuel Screen Maint.	2/20/2020	8/1/24 - 5650.9	Due ea. 100 hr./Annual
154	SB20-03	Eng. Pres. During COVID	4/13/2020		Info. Only
155	SIL20-05	Energizer Starter ICA's	9/28/2020		Info. Only
156	SB673C	1200 series Mag Bearings	5/24/2022		DNA - slick Mags are installed
157	MSB23-01A	C/S Counterweights	2/16/2023		DNA per Eng. S/N
158	SB23-03	Hartzell SB 096 (Alternator)	5/24/2023		DNA per Alter. S/N



# PROPELLER MAINTENANCE RECORDS

Aircraft Registration	NHIAMA	
<b>Propeller Position</b>	Left	
<b>Propeller Serial No.</b>	E876158	

HARTZELL PROPELLER INC Item Number: C3F00270 INSPECTION Work O									8/21/2012 M605350		
Model Nurr		3YF-2UF/F	C7693DFB					, on t		11000000	
Ass'y Ser N EB76256		Hydr Unit NA	No. E	Bulkhead No NA	D.	Valve N	o. NA			-	
Blade 1:L2 Clamp 1:	26571	Blade 2:L2 Clamp 2:	6572	Blade 3:L2 Clamp 3:	6573	Blade 4: Clamp 4:		Blade 5: Clamp 5:		Blade 6:	
Reverse NA	Start Lock	Low Pitch 13.0	High Pitch 18.0	Feather 81.1	Position	Orient.	Qty:Al	St 0	Scrw 0	A-2424-1	Washer
Comments	(inches) for ; 5E2748-1		ed but not i								
Certified B	y: By: John M	my	1011	2172	4						

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# PROPELLER MAINTENANCE RECORDS

	Log No
Aircraft Registration No. NAIMMP	
Propeller Manufacturer <u>Hartzell</u>	
Hub Model PHC-C3YF-JUF/FC7693DFB	
Blade Design No	
Hub Serial No. EB76258	
Blade Serial No's.         1. <u>L 26571</u> 2. <u>L 26572</u> 3. <u>L 26573</u> 4.	
Pitch Range:	
High18.0 Low13.0	
Feather 81.1 Reverse N/A	
Governor Manufacturer	_
Model No	-
Serial No	
Date installed on aircraft	
Time Between Overhauls (TBO) Ho	urs
If used on multi-engine aircraft: Left I Right Front I Rear	
(All applicable information must be filled in)	
Waco Regional Airport • P.O. Box 5219 • Waco, Texas 7670 FAX 254-752-3307	)8 1-800-4

254/752-8381

1-800-445-9713

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CHEROKEE CO		L: PHC-C3YF-2UF	DATE: 07-22-201	3
And the second se	UNTY AIRPORT A/C REC		TACH: 0208.	6 –
1800 AIRPORT I BALL GROUND		V: 414A-0317 V: EB7625B	TOTAL: 0000.0	-
THIS PROPELLER IN	STALLED IN LEFT POSITION OF N	414MP. TRACK CHECKED.	RETURNED TO SERVICE	
SIGNED:	a Danial		CERT#: 3479116 A&:	P IA
1 1				t
	A AVIANT ON	Shoreline Avlation, Inc.		
	9	George Fladow Fladt (GHG) 93 Old Colony Lane Marstifield, MA D2050		
/2013 N414MP	Cessna 414A, serial	I # 414A-0317	Propeller 1 L	.ogbook
eline Aviation, Inc. Id Colony Lane hlīeid, MA 02050 337-8521	cted in accordance with an annual inspect	Signed Edward J	Moral Jr. A+P 2832024 IA	
	AVIATION Shoreline	oreline Avlation, Inc.		-
	Geo 93 C	rshfield Municipal Airport orge Harlow Field (GHG) Old Colony Lane		
15 N414MP	Cessna 414A, serial #	shied. MA (12050	Propeller 1 Log	
	:: #1 Engine TT: 3326.1 :: #1 Engine S 165.1		form.	1:: -
ine TT: 2622.6 :: #2 Engine SMOH: eted Operations #3 & #4 inpsection ite	ems per the Cessna 414A Maintenance m d in accordance with Operations #3 & #4	l of the Cessna Progressive Care i	npsection program and was	_
ine TT: 2622.6 :: #2 Engine SMOH: ted Operations #3 & #4 inpsection its that this Propeller has been inspecte ned to be in an airworthy condition ne Aviation, Inc. Colony Lane eld, MA 02050	d in accordance with Operations #3 & #4	signed Edward A		
ine TT: 2622.6 :: #2 Engine SMOH: ted Operations #3 & #4 inpsection its that this Propeller has been inspecte	d in accordance with Operations #3 & #4	signed Edward A	Morah	
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ine TT: 2622.6 :: #2 Engine SMOH: ted Operations #3 & #4 inpsection its that this Propeller has been inspecte ned to be in an airworthy condition ne Aviation, Inc. Colony Lane eld, MA 02050	d in accordance with Operations #3 & #4	signed Edward A	Morah	

	_1	AVIATION	Shoreline Aviation, Inc.		
	-		Marshfield Municipal Airpor George Harlow Field (GHG 93 Old Colony Lans Marshfield, MA 02050		
7/2/2015 N414M	p	Cessna 414A	serial # 414A-0317		Orenelles d.). est a
Hobbs Hours: 422.1 :: Airc	craft TT: 4244.7 :: #1 Engir			Propeller TT: 216.3 :: #2	Propeller 1 Logbo Propeller TT: 216.3 ···
#2 Engine 11, 2073.0 #4	A Engine SMOH: 216.3				
I certify that this Propetter h	ation 1 in accordance with C as been inspected in accord	essna Model 414A M	aintenance Manual (50 hos #1 inconcelium and who deb	ur inspection items)	
		ance with a operation	# ranspection and was det	emined to be in an airworth	y condition.
Shoreline Avlation, Inc. 93 Old Colony Lane				$\wedge \bigcirc$	
Marsh/ield, MA 02050 781-837-8521			0_0	off	1
			Signed	John E. Sheehan A+P 34	139260 14
		+	V	Bornada, Onlochight ATP J-	
		Shoreline			,
	4	VIATION	Shoreline Aviation, Inc.		
	-		Marshfield Municipal Airport		
			George Harlow Field (GHG) 93 Old Colony Lane		
3/27/2015 N414MP	i l	Canona 4148	Marshfield MA 02050		
and the second second	raft TT: 4295,2 ∷ #1 Engin/ Heater Hobbs: 419.0	осзынанна, з е TT- 3427 в #1 Б	erial # 414A-0317		Propeller 1 Logbo
	1104001110900. 410.0				ropeller TT: 266.8 ::
Completed Operation #2 inps 	section items per the Cessni	a 414A Maintenance r	nanual progressive care in	spection form.	
The above work was complet work accomplished.	ted in accordance with curre	ent regulations of the F	ederal Aviation Administra	tion and is approved for retu	m to service for the
Shoreline Aviation, Inc. 93 Old Colony Lane				- 10 - 11 - 11 - 11 - 11 - 11 - 11 - 11	
Marshfield, MA 02050				1	
781-837-8521			111	- And	11
			Signed Mall	N2 Min	My
				Matthew D. Murphy A+P:	2662824
		-			
	AS	Shoreline ZIATION	Shoreline Aviation, Inc.		
	AN	INTION .			
	A		Marshfield Municipal Airport George Harlow Fleld (GHG)		
			Marshfield Municipal Airport		
		Cessna 414A, sei	Marshfield Municipal Airport George Harlow Flet(GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317		
bbs Hours: 504.5 :: Aircraf	tTT: 4327.1 :: #1 Engine 1		Marshfield Municipal Airport George Harlow Flet(GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317	ro <b>peller TT: 298.7 ∷ #2</b> Pro	
bbs Hours: 504.5 :: Aircraf Engine TT: 2756.2 :: #2 Ei	ngine SMOH: 290.7	FT: 3459.7 :: #1 Engi	Marshfield Municipal Airport George Harlow Fled (GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Pr		
bbs Hours: 504.5 :: Aircraf Engine TT: 2756.2 :: #2 Ei ompleted Operation #s 3 & 4	ngine SMOH: 298.7 4 inpsection items per the Ce	FT: 3459.7 :; ⊯1 Engi essna 414A Maintena	Marshfield Municipal Airport George Harlow Fledt (GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Prince manual progressive ca	re inspection form.	peller TT: 298.7 ∷
bbs Hours: 504.5 :: Aircraf Engine TT: 2756.2 :: #2 Ei ompleted Operation #s 3 & 4 Drained oil, added 11 qts, ff ted no abnormal contaminant	ngine SMOH: 298.7 4 inpsection items per the Ce 7 Phillips X/C 20w-50 oil. Ins ts.	TT: 3459.7 :: #1 Engi essna 414A Maintena, stalled and saftied a ne	Marshfield Municipal Airport George Harlow Fledt (GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Prince manual progressive ca ew AA48108-2 oil filter. Inc	are inspection form. spected drained oil and oil fi	peller TT: 298.7 ∷
bbs Hours: 504.5 :: Aircraf Engine TT: 2756.2 :: #2 Ei ompleted Operation #s 3 & 4 Drained oil, added 11 qts, ff ted no abnormal contaminant Cyl. Comp. Checked per TC	ngine SMOH: 298.7 4 inpsection items per the Ce 7 Phillips X/C 20w-50 oil. Ins ts. CM SB 03-03 as follows: 1)	T: 3459.7 :: #1 Engi essna 414A Maintenau stalled and saftied a na 70/80 2) 66/80 3) 64/	Marshfield Mirnicipal Airport George Harlow Flet (GHG) S3 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Prince manual progressive ca w AA48108-2 oif filter. In: 80 4) 68/80 5) 65/80 6) 72	are inspection form. spected drained oil and oil fi /80.	peller TT: 298.7 ::
bbs Hours: 504.5 :: Aircraft Engine TT: 2756.2 :: #2 Er ompleted Operation #s 3 & 4 DraIned oil, added 11 qts, ff ted no abnormal contaminant Cyl. Comp. Checked per TC C/W the follwing TCM repet sp.), SB96-7C (Torque Value	ngine SMOH: 298.7 4 inpsection items per the Ce f Phillips X/C 20w-50 oil. Ins ts. CM SB 03-03 as follows: 1) titive SB's: M90-17 (C/C Ins es), MSB94-8D (Mag Timing	TT: 3459.7 :; #1 Engi essna 414A Maintenau stalled and saftied a na 70/80 2) 66/80 3) 64/h sp), SB95-2 (Control L i), SID97-3F (Fuet Sys	Marshfield Municipal Airport George Harlow Fled (GHG) 93 Old Colony Lane Marshfield, MA 02050 tial # 414A-0317 ine SMOH: 298.7 :: #1 Pr nce manual progressive ca ew AA48108-2 oil filter. In: 80 4) 68/80 5) 65/80 6) 72 inkage Insp), SB95-7 (Fu stem) & SB09-7 (C/S Rust	are inspection form. spected drained oil and oil fi /80. 21 Manifold valve cover inso)	peller TT: 298.7 ::
bbs Hours: 504.5 ::: Aircraft Engine TT: 2756.2 :: #2 En impleted Operation #s 3 & 4 DraIned oil, added 11 qts. ff ted no abnormal contaminant Cyl. Comp. Checked per TC C/W the follwing TCM repet sp.), SB96-7C (Torque Value Ground runup and functions	ngine SMOH: 298.7 4 inpsection items per the Ce 7 Phillips X/C 20w-50 oil. Ins ts. CM SB 03-03 as follows: 1) titive SB's: M90-17 (C/C Ins xs), MSB94-8D (Mag Timing al checks satisfactory with ne	T: 3459.7 :: #1 Engi essna 414A Maintenau stalled and saftied a na 70/80 2) 66/80 3) 64/4 ap), SB95-2 (Control L a), SID97-3F (Fuel Systo o fuel or oil leaks note	Marshfield Mirnicipal Airport George Harlow Fled (GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Prince manual progressive ca ew AA48108-2 oil filter. In: 80 4) 68/60 5) 65/80 6) 72 Jinkage Insp), SB95-7 (Fusited Strem) & SB09-7 (C/S Rustic)	are inspection form. spected drained oil and oil fi /80. el Manifold valve cover insp) and noted no defects.	peller TT: 298.7 :: fter element and , SB96-12 (cyl
bbs Hours: 504.5 ::: Aircraft Engine TT: 2756.2 :: #2 En impleted Operation #s 3 & 4 DraIned oil, added 11 qts. ff ted no abnormal contaminant Cyl. Comp. Checked per TC C/W the follwing TCM repet sp.), SB96-7C (Torque Value Ground runup and functional ertify that this Engine has be	ngine SMOH: 298.7 4 inpsection items per the Ce 7 Phillips X/C 20w-50 oil. Ins ts. CM SB 03-03 as follows: 1) titive SB's: M90-17 (C/C Ins xs), MSB94-8D (Mag Timing al checks satisfactory with ne	T: 3459.7 :: #1 Engi essna 414A Maintenau stalled and saftied a na 70/80 2) 66/80 3) 64/4 ap), SB95-2 (Control L a), SID97-3F (Fuel Systo o fuel or oil leaks note	Marshfield Mirnicipal Airport George Harlow Fled (GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Prince manual progressive ca ew AA48108-2 oil filter. In: 80 4) 68/60 5) 65/80 6) 72 Jinkage Insp), SB95-7 (Fusited Strem) & SB09-7 (C/S Rustic)	are inspection form. spected drained oil and oil fi /80. el Manifold valve cover insp) and noted no defects.	peller TT: 298.7 :: fter element and , SB96-12 (cyl
bbs Hours: 504.5 :: Aircraft Engine TT: 2756.2 :: #2 En impleted Operation #s 3 & 4 DraIned oil, added 11 qts. ff ted no abnormal contaminant Cyl. Comp. Checked per TC CAV the follwing TCM repet sp.), SB96-7C (Forque Value Ground runup and functiona ertify that this Engine has be in an airworthy condition.	ngine SMOH: 298.7 4 inpsection items per the Ce 7 Phillips X/C 20w-50 oil. Ins ts. CM SB 03-03 as follows: 1) titive SB's: M90-17 (C/C Ins xs), MSB94-8D (Mag Timing al checks satisfactory with ne	T: 3459.7 :: #1 Engi essna 414A Maintenau stalled and saftied a na 70/80 2) 66/80 3) 64/4 ap), SB95-2 (Control L a), SID97-3F (Fuel Systo o fuel or oil leaks note	Marshfield Mirnicipal Airport George Harlow Fled (GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Prince manual progressive ca ew AA48108-2 oil filter. In: 80 4) 68/60 5) 65/80 6) 72 Jinkage Insp), SB95-7 (Fusited Strem) & SB09-7 (C/S Rustic)	are inspection form. spected drained oil and oil fi /80. el Manifold valve cover insp) and noted no defects.	peller TT: 298.7 :: fter element and , SB96-12 (cyl
bbs Hours: 504.5 :: Aircraft Engine TT: 2756.2 :: #2 En mpleted Operation #s 3 & 4 DraIned oil, added 11 qts. ff ted no abnormal contaminant Cyl. Comp. Checked per TC C/W the follwing TCM repet p.), SB96-7C (Forque Value Ground runup and functions ertify that this Engine has be in an airworthy condition. oreline Aviation, Inc.	ngine SMOH: 298.7 4 inpsection items per the Ce 7 Phillips X/C 20w-50 oil. Ins ts. CM SB 03-03 as follows: 1) titive SB's: M90-17 (C/C Ins xs), MSB94-8D (Mag Timing al checks satisfactory with ne	T: 3459.7 :: #1 Engi essna 414A Maintenau stalled and saftied a na 70/80 2) 66/80 3) 64/4 ap), SB95-2 (Control L a), SID97-3F (Fuel Systo o fuel or oil leaks note	Marshfield Mirnicipal Airport George Harlow Fled (GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Prince manual progressive ca ew AA48108-2 oil filter. In: 80 4) 68/60 5) 65/80 6) 72 Jinkage Insp), SB95-7 (Fusited Strem) & SB09-7 (C/S Rustic)	are inspection form. spected drained oil and oil fi /80. el Manifold valve cover insp) and noted no defects.	peller TT: 298.7 :: fter element and , SB96-12 (cyl
bbs Hours: 504.5 :: Aircraft Engine TT: 2756.2 :: #2 En mpleted Operation #s 3 & 4 DraIned oil, added 11 qts, ff ed no abnormal contaminant Cyl. Comp. Checked per TC CAW the follwing TCM repet p.), SB96-7C (Forque Value Ground runup and functiona entify that this Engine has be in an airworthy condition. oreline Aviation, Inc. Old Colony Lane rshfield, MA 02050	ngine SMOH: 298.7 4 inpsection items per the Ce 7 Phillips X/C 20w-50 oil. Ins ts. CM SB 03-03 as follows: 1) titive SB's: M90-17 (C/C Ins xs), MSB94-8D (Mag Timing al checks satisfactory with ne	T: 3459.7 :: #1 Engi essna 414A Maintenau stalled and saftied a na 70/80 2) 66/80 3) 64/4 ap), SB95-2 (Control L a), SID97-3F (Fuel Systo o fuel or oil leaks note	Marshfield Mirnicipal Airport George Harlow Fled (GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Prince manual progressive ca ew AA48108-2 oil filter. In: 80 4) 68/60 5) 65/80 6) 72 Jinkage Insp), SB95-7 (Fusited Strem) & SB09-7 (C/S Rustic)	are inspection form. spected drained oil and oil fi /80. el Manifold valve cover insp) :) and noted no defects.	fter element and , SB96-12 (cyl
bbs Hours: 504.5 ::: Aircraft Engine TT: 2756.2 :: #2 En impleted Operation #s 3 & 4 DraIned oil, added 11 qts. ff ted no abnormal contaminant Cyl. Comp. Checked per TC C/W the follwing TCM repet sp.), SB96-7C (Torque Value Ground runup and functional ertify that this Engine has be	ngine SMOH: 298.7 4 inpsection items per the Ce 7 Phillips X/C 20w-50 oil. Ins ts. CM SB 03-03 as follows: 1) titive SB's: M90-17 (C/C Ins xs), MSB94-8D (Mag Timing al checks satisfactory with ne	T: 3459.7 :: #1 Engi essna 414A Maintenau stalled and saftied a na 70/80 2) 66/80 3) 64/4 ap), SB95-2 (Control L a), SID97-3F (Fuel Systo o fuel or oil leaks note	Marshfield Mirnicipal Airport George Harlow Fled (GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Prince manual progressive ca ew AA48108-2 oil filter. In: 80 4) 68/60 5) 65/80 6) 72 Jinkage Insp), SB95-7 (Fusited Strem) & SB09-7 (C/S Rustic)	are inspection form. spected drained oil and oil fi /80. el Manifold valve cover insp) :) and noted no defects.	peller TT: 298.7 :: fter element and , SB96-12 (cyl
bbs Hours: 504.5 ::: Aircraft Engine TT: 2756.2 :: #2 En impleted Operation #s 3 & 4 DraIned oil, added 11 qts, ff ted no abnormal contaminant Cyl. Comp. Checked per TC CAW the follwing TCM repet ground runup and functiona ertify that this Engine has be in an airworthy condition. oreline Aviation, Inc. Old Cotony Lane rshfield, MA 02050	ngine SMOH: 298.7 4 inpsection items per the Ce 7 Phillips X/C 20w-50 oil. Ins ts. CM SB 03-03 as follows: 1) titive SB's: M90-17 (C/C Ins xs), MSB94-8D (Mag Timing al checks satisfactory with ne	T: 3459.7 :: #1 Engi essna 414A Maintenau stalled and saftied a na 70/80 2) 66/80 3) 64/4 ap), SB95-2 (Control L a), SID97-3F (Fuel Systo o fuel or oil leaks note	Marshfield Mirnicipal Airport George Harlow Fled (GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Prince manual progressive ca ew AA48108-2 oil filter. In: 80 4) 68/60 5) 65/80 6) 72 Jinkage Insp), SB95-7 (Fusited Strem) & SB09-7 (C/S Rustic)	are inspection form. spected drained oil and oil fi /80. al Manifold valve cover insp) and noted no defects. Care inspection program ar	peller TT: 298.7 :: fter element and , SB96-12 (cyl nd was determined to
bbs Hours: 504.5 ::: Aircraft Engine TT: 2756.2 :: #2 En impleted Operation #s 3 & 4 DraIned oil, added 11 qts, ff ted no abnormal contaminant Cyl. Comp. Checked per TC CAW the follwing TCM repet ground runup and functiona ertify that this Engine has be in an airworthy condition. oreline Aviation, Inc. Old Cotony Lane rshfield, MA 02050	ngine SMOH: 298.7 4 inpsection items per the Ce 7 Phillips X/C 20w-50 oil. Ins ts. CM SB 03-03 as follows: 1) titive SB's: M90-17 (C/C Ins xs), MSB94-8D (Mag Timing al checks satisfactory with ne	T: 3459.7 :: #1 Engi essna 414A Maintenau stalled and saftied a na 70/80 2) 66/80 3) 64/4 ap), SB95-2 (Control L a), SID97-3F (Fuel Systo o fuel or oil leaks note	Marshfield Mirnicipal Airport George Harlow Fled (GHG) 93 Old Colony Lane Marshfield, MA 02050 rial # 414A-0317 ine SMOH: 298.7 :: #1 Prince manual progressive ca ew AA48108-2 oil filter. In: 80 4) 68/60 5) 65/80 6) 72 Jinkage Insp), SB95-7 (Fusited Strem) & SB09-7 (C/S Rustic)	are inspection form. spected drained oil and oil fi /80. el Manifold valve cover insp) :) and noted no defects.	peller TT: 298.7 :: fter element and , SB96-12 (cyl nd was determined to



Shoreline Aviation, Inc. +

Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshrield, MA 02050

#### 2/11/2016 N414MP

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## Cessna 414A, serial # 414A-0317

**Propeller 1 Logbook** 

Hobbs Hours: 504.5 :: Aircraft TT: 4327.1 :: #1 Engine TT: 3459.7 :: #1 Engine SMOH: 298.7 :: #1 Propeller TT: 298.7 :: #2 Propeller TT: 298.7 :: #2 Engine TT: 2756.2 :: #2 Engine SMOH: 298.7

Completed Operation #'s 3 & 4 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form.

I certify that this Propeller has been inspected in accordance with Operation 3 & 4 of the Cessna Progressive Care inspection program and was determined to be in an airworthy condition.

Shoreline Aviati					
93 Old Colony I				0 (	1
Marshfield, MA	02050				
781-837-8521				a optit	
				Signed	
				John E. She	ehan A+P 3439269 IA
1	1 1	1	I		
	-		Shamiling		
1			ANIATION	Shoreline Aviation, Inc.	
			2 WITTEOT	÷	
				George Harlow Field (GHG)	
	-			93 Old Colony Lane Marshfield, MA 02050	
			and the second se		
	6/17/2016	N414MP	Cessna 414/	A Serial Number 414A0317	Propeller 1 Logbook
				1: 3509.3 :: #1 Engine SMOH: 348.3	:: #1 Propetter TT: 348.3 :: #2
	<ul> <li>Engine TT: 28</li> </ul>	105.8 :: #2 Engine SM	OH: 348.3 :: #2 Prope	eiler TT: 348.3	
	Completed O	peration 1 inspection ite	ms per the Cessna 41	4A Maintenance manualprogressive ca	are inspection form.
	i certify that th	is Propeller has been in	rspected in accordance	with Operation 1 of the Cessna Prog	ressive Care inspection program
	and was deter	mined to be in airworth	y condition.	0	
	-			Signed	1000
				Ryan E Kt	ITY A+P 3825647
	-				
			AVIATION	Shoreline Aviation, Inc. Marshield Municipal Algorit George Horlow Field (GHG) 93 Old Colony Lane	
				Marshfield, MA 02050	
9/23/2016	N414MP		Cossna 4148 e	erial # 414A-0317	Duran Band Land
		TT: 4467.0 #4 E			Propeller 1 Logboo
:: #2 Engine	T- 2897 D #2	Engine TSMOH: 439.5	" Heater Hobber 1/26	ngine TSMOH: 439.5 :: #1 Propeller	TT: 439.5 :: #2 Propeller TT: 439.5
				manual progressive care inspection for	
Ground runum	and functional ch	oche ware entitie dess	and a maximum enance	manual progressive care inspection to	m.
		ecks were satisfactory			
r cerury unar th	is Propewer has b	een inspected in accord	lance with an Operatio	n #3 inspection and was determined to	be in an airworthy condition.
				Signed 1	7
				Ryan E.	Kelly A+P 3825647
-	1				
1					
-					
			-		
	++				

SUB-TOTALS this page

TOTALS-Carry forward to next page

age No		AVIATION	Shoreline Avlation, Inc.		
		No. of Concession, Name	Marshfield Municipal Airport George Harlow Field (GHG)		
DATE			93 Old Colony Lane		
	0/0/0047 NA4 48		Marshfield, MA 02050		WORK
	2/8/2017 N414M			Propeller 1 Logbook	
	Hobbs Hours: 675.6 :: A Propeller TT: 469.8 :: #2 Heater Hobbs: 442.7	ircraft TT: 4498.2 :: #1 Engir Propeller TT: 469.8 :: #2 Er	ne TT: 3630.8 ∷ #1 Engine TSM ngine TT: 2927.3 ∷ #2 Engine T	MOH: 469.8 :: #1 FSMOH: 469.8 ::	
	Reset propeller accumula	tor pressure to 41psi from 30	psi with nitrogen		
	The above work was com	pleted in accordance with cur	rent regulations of the Federal A	viation	
	Administration and is appl	roved for return to service for	the work accomplished.		
	Shoreline Aviation, Inc.				
	93 Old Colony Lane				
	Marshfield, MA 02050 781-837-8521	,	$\cap$		
	101-031-0321	Signed 10	ma An Par	-1	
		Signed	James Asadoorian Jr. A+P	200000	
1	1 1		James Asaboonan Jr. A+P	3 1908880	
	, 1				
		<b>Shoreline</b>			
		AVIATION	Shoreline Avlation, Inc.		
			Marshfield Municipal Airport		
			George Harlow Field (GHG) 93 Old Colony Lane		
			Marahfield, MA 02050		
5/25/2017	N414MP	Cessna 414,	A, serial # 414A-0317		Propeller 1 Log
Completed Ope		per the Cessna 414A Mainter sted in accordance with an Op	eration #1 inspection and was d Signed	letermined to be in an al	
Completed Ope	ration #1 inspection items		eration #1 inspection and was d Signed		
Completed Ope	ration #1 inspection items		eration #1 inspection and was d Signed	letermined to be in an al	
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Completed Ope	ration #1 inspection items		eration #1 inspection and was d Signed	letermined to be in an al	
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Completed Ope	ration #1 inspection items	Shoreline	eration #1 inspection and was d Signed	letermined to be in an al	
Completed Ope	ration #1 inspection items	eted in accordance with an Op	eration #1 inspection and was d SignedLa La	letermined to be in an al	
Completed Ope	ration #1 inspection items	Shoreline	Shoreline Avlation, Inc.	letermined to be in an al	
Completed Ope	ration #1 inspection items	Shoreline	Shoreline Avlation, Inc.	letermined to be in an al	
Completed Ope	ration #1 inspection items	AVIATION	Shoreline Avlation, Inc.	urence F. Mulloy A+P 2	23507120
Completed Ope I certify that this /2017   bbs Hours: 818.	N414MP C :: Aircraft TT: 4640.6 ::	AVIATION Cessna 414A, s #1 Engine TT: 3775.8 :: #1	Shoreline Avlation, Inc. Marshflold Municipal Arport George Harlow Field (GHQ) 93 Old Colony Lane Marshfield, MA 02050 Sterial # 414A-0317 Engine TSMOH: 614.8 #1 Pr	urence F. Mulloy A+P 2	23507120
Completed Ope I certify that this /2017 I bbs Hours: 818. #2 Engine TT: 30	N414MP 0 :: Aircraft TT: 4640.6 :: 072.3 :: #2 Engine TSMO	Shoreline AVIATION Cessna 414A, s #1 Engine TT: 3775.8 :: #1 H: 614.8 :: Heater Hobbs: 45	Shoreline Avlation, Inc. Marshilold Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshileid, MA 02050 serial # 414A-0317 Engine TSMOH: 614.8 :: #1 Pil 54.1	urence F. Mulloy A+P 2 Propeller TT: 614.8 :: #2	23507120
Completed Ope I certify that this //certify th	N414MP 0 :: Aircraft TT: 4640.6 :: 072.3 :: #2 Engine TSMOI on #3 inpsection items per	Shoreline AVIATION Cessna 414A, s #1 Engine TT: 3775.8 :: #1 H: 614.8 :: Heater Hobbs: 48 the Cessna 414A Maintenand	Shoreline Aviation, Inc. Shoreline Aviation, Inc. Marshfloid Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 sterial # 414A-0317 Engine TSMOH: 614.8 :: #1 Ph 54.1 Se manual progressive care insp	Propeller TT: 614.8 :: #2	ropeller 1 Logbo Propeller TT: 6
Completed Ope I certify that this //certify th	N414MP 0 :: Aircraft TT: 4640.6 :: 072.3 :: #2 Engine TSMOI on #3 inpsection items per	Shoreline AVIATION Cessna 414A, s #1 Engine TT: 3775.8 :: #1 H: 614.8 :: Heater Hobbs: 48 the Cessna 414A Maintenand	Shoreline Avlation, Inc. Marshilold Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshileid, MA 02050 serial # 414A-0317 Engine TSMOH: 614.8 :: #1 Pil 54.1	Propeller TT: 614.8 :: #2	ropeller 1 Logbo Propeller TT: 6
Completed Ope I certify that this //certify th	N414MP 0 :: Aircraft TT: 4640.6 :: 072.3 :: #2 Engine TSMOI on #3 inpsection items per	Shoreline AVIATION Cessna 414A, s #1 Engine TT: 3775.8 :: #1 H: 614.8 :: Heater Hobbs: 48 the Cessna 414A Maintenand	Shoreline Avlation, Inc. Shoreline Avlation, Inc. Marshilold Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshileid, MA 02050 serial # 414A-0317 Engine TSMOH: 614.8 :: #1 Pi 54.1 Se manual progressive care insp tion #3 inspection and was date Signed	Propeller TT: 614.8 :: #2	23507120 Propeller 1 Logbo Propeller TT: 6 prthy condition.
Completed Ope I certify that this //certify th	N414MP 0 :: Aircraft TT: 4640.6 :: 072.3 :: #2 Engine TSMOI on #3 inpsection items per	Shoreline AVIATION Cessna 414A, s #1 Engine TT: 3775.8 :: #1 H: 614.8 :: Heater Hobbs: 48 the Cessna 414A Maintenand	Shoreline Avlation, Inc. Shoreline Avlation, Inc. Marshilold Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshileid, MA 02050 serial # 414A-0317 Engine TSMOH: 614.8 :: #1 Pi 54.1 Se manual progressive care insp tion #3 inspection and was date Signed	Propeller TT: 614.8 :: #2 pection form.	23507120 Propeller 1 Logbo Propeller TT: 6 porthy condition.
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Shoreline Aviation, Inc.

MarshNeld Municipal Airport George Harlow Fletd (GHG) 93 Old Colony Lane MarshNeld, MA 02050

## 7/6/2018 N414MP

Cessna 414A, serial # 414A-0317

# Propeller 1 Logbook

Hobbs Hours: 908.2 :: Aircraft TT: 4730.8 :: #1 Engine TT: 3866.0 :: #1 Engine TSMOH: 705.0 :: #1 Propeller TT: 705.0 :: #2 Propeller TT: 705.0 :: #2 Engine TSMOH: 705.0 :: Heater Hobbs: 475.9

Completed Operation #1 inspection items per the Cessna 414A Maintenance manual progressive care inspection form.

I certify that this Propeller has been inspected in accordance with an Operation #1 inspection and was determined to be in an airworthy condition.

Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050	9	2
781-837-8521		
	Signed	1 ABD 2200070
1 ·····	Jason Pe	ereira A&P 3389376
	Shoreline Shoreline Aviation, Inc.	
	Marshfield Municipal Airport	
	George Harlow Field (GHG) 93 Okt Colony Lane	
	Marshüeld, MA 02050	
20/2018 N414MP	Cessna 414A, serial # 414A-0317	Propeiler 1 Logbook
obbs Hours: 958.3 :: Aircraft TT: 4 61.2 :: #2 Engine TT: 3218.7 :: #2	.780.9 ::: #1 Engine TT: 3922.2 :: #1 Engine TSMOH: 761.2 :: #1 Propeller 2 Engine TSMOH: 761.2 :: Heater Hobbs: 476.0	11.761.2 #2 Plopeller 11.
completed Operation #2 inpsection i	tems per the Cessna 414A Maintenance manual progressive care inspection f	
certify that this Propeller has been i	nspected in accordance with an Operation #2 inspection and was determined	to be in an airworthy condition.
horeline Aviation, Inc.		
3 Old Colony Lane Iarshfield, MA 02050		
81-837-8521	0	t largely
	Signed Wonald Afarr	ington 1939767
	Donald Harr	ington A+P 1939767
1 1		
	AVIATION Shoreline Aviation, Inc.	
	Marshäold Municipal Airport	
	George Harlow Field (GHG) 95 Old Colony Lane	
	Marchfield, MA 02050	Propeller 1 Logbool
4/19/2019 N414MP	Cessna 414A, serial # 414A-0317 : 4816.7 :: #1 Engine TT: 3958.6 :: #1 Engine TSMOH: 797.6 :: #1 Propel : TSMOH: 707.6 :: #1 Propel	-
707 6 #2 Engine TT 3255 1	#2 Engine ISMUH: 797.0 Heater Hobbs. 431.0	
Completed Operation #3.8 #4 inst	pection items per the Cessna 414A Maintenance manual progressive care inst	pection form.
I certify that this Propeller has been	in inspected in accordance with an Operation #3 & #4 inspection and was deter	ermined to be in an airworthy
condition.		
Shoreline Aviation, Inc.		
93 Old Colony Lane Marshfield, MA 02050	. 1)	1 1 1
781-837-8521	Signed_ Edward A	-Mort A
	Edward J. N	lovak Jr. A+P 2832024 IA
	- Store 5 A His manual	for Old due to
5/13/19 Hold 53 100	S. A TON "40 Properly removed	IDI UNIQUE IDI
5/13/19 Holles 100	5.0 TSN: 808,5. Propeller removed	
5/13/19 Holles 100	6 xear life limit. Edward	
5/13/19 Holles 100		
5/13/19 Hollsy 100	Exearlife limit. Edward	

			LER FC7693D S/N EB76					
DAT! P	P.T.T.S.N.: 808		VERHAUL. BLADES	REFINISHED P	ARTS			WORK
1	P.T.T.S.O.: 00.0	0 FLORESC	CENT PENETRANT	INSPECTED				
1. Approvi	ng Civil Aviation	-	AUTHORIZED	RELEASE CER	TIEICATE		3. Form Tracks	ng Number:
Authorit	y/Country: United States	2.	FAA Form 8130-3, A			G		45239
	stion Name and Addre						5. Work Orden	Contract/Involce Number
	New Englar FAA RSN R EASA 145.5		rvice, Inc		ivə СТ 06423-238 4 · Fax: (860) 8		0	R-45239
6. Item:	7. Description:	8. Part Number:		9. Quantity:	10. Serial Number	er:	11. Status/World	k:
1	Hartzell-Propeller		C-C3YF-2UF C7693DFB	1	EB	7625B	0	verhauled
Total Time	PELLER WAS REPAIR	Tim	WITH MANUFACTURER'S M ne Since Overhaul:0 nd Propeller Service, Inc.	10.00 hrs	117DR18 202A V3R38 202A V9R31	133CR38 202A V8R35 202A V10R35		202A V2R30 202A V8R33
	BOOTS INSTALLE		2.) L26572	GREASED, SET AN 3.) L26573	4.) N/A	5.) N/A	6.) N/A	]
			20		TS REPLACE	1	04	Desses
		ave been complied with	<u>h</u> :		nclature	Part #	Qty.	Reason
	ng Service Bulletins h 1-118FR1	ave been complied with	<u>b</u> :			1	Qty.	Reason
		ave been complied with	h:			1	Qty.	Reason
		ave been complied with	<u>h</u> .			1	Qty.	Reason
		ave been complied with	h AShoreline	Nome N Shors Marshfi George 93 Old		Part #	Qty.	Reason
HC-SB-6	1-118FR1		AShoreline AVIATIO	Nome N Shors Marshfi George 93 Old Marshfi a 414A, serial # 41	Inclature	Part #		Propeller 1 Logbo
HC-SB-6	1-118FR1		AShoreline	Nome N Shors Marshfi George 93 Old Marshfi a 414A, serial # 41	Inclature	Part #		Propeller 1 Logbo
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i

Shoreline Shorefine Aviation. Inc. VIATION Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 2/22/2020 N414MP Cessna 414A, serial # 414A-0317 Propeller 1 Logbook Hobbs Hours: 1135.7 :: Aircraft TT: 4958.3 :: #1 Propeller TT: 933.5 :: #1Propeller SMOH: 131.4 :: #2 Propeller TT: 933.5 :: #2 Propeller SMOH: 131.4 Completed Operation #3 inspection items per the Cessna 414A Maintenance manual progressive care inspection form. I certify that this Propeller has been inspected in accordance with an Operation #3 inspection and was determined to be in an airworthy condition. Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521 Signed\_ Colward & North Edward J. Novak Jr. A+P 2832024 IA Shoreline Shoreline Avlation, Inc. VIATION Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lana Marshfield, MA 02050 10/16/2020 N414MP Cessna 414A, serial # 414A-0317 Propeller 1 Logbook Hobbs Hours: 1238.2 :: Aircraft TT: 5060.8 :: #1 Engine TT: 4197.0 :: #1 Engine TSMOH: 1036.0 :: #1 Propeller TT: 1036.0 :: #1Propeller SMOH: 233.9 :: #2 Propeller TT: 1036.0 :: #2 Propeller SMOH: 233.9 :: #2 Engine TT: 3493.5 :: #2 Engi TSMOH 1036.0 HH 5110 Completed Operation #1 inpsection items per the Cesana 414A Maintenance manual progressive care inspection form. I certify that this Propeller has been inspected in accordance with an Operation #1 inspection and was determined to be in an airworthy condition. Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521 Colwan Signed Edward J. Novak Jr. A+P 2832024 IA Shoreline Shoreline Aviation, Inc. VIATION Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 3/24/2021 N414MP Cessna 414A, serial # 414A-0317 Propeller 1 Logbook Hobbs Hours: 1314.1 :: Aircraft TT: 5136.7 :: #1 Propeller TT: 1111.9 :: #1Propeller SMOH: 309.8 :: #2 Propeller TT: 1111.9 :: #2 Propeller SMOH: 309.8 Completed Operation #3 inspection items per the Cessna 414A Maintenance manual progressive care inspection form. I certify that this Propeller has been inspected in accordance with an Operation #3 inspection and was determined to be in an airworthy condition. Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521 Signed Sheehan A+P 3439269 IA Johr F. SUB-TOTALS this page TOTALS-Carry forward to next page

Page No. TOTAL TOTAL TACH OR DESCRIPTION OF WORK PERFORMED-RECORDING TIME TIME DATE SINCE SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK 1NF TIME SERVICE TOTALS brought forward from previous page Shoreline Shoreline Aviation, Inc. WIATION Marshilaid Municipal Aircont George Harlow Field (GHG) 93 Old Colony Lane Mershlield, MA 02050 N414MP Cessna 414A, serial # 414A-0317 Propeller 1 Logbook 6/24/2021 Hobbs Hours: 1377.1 :: Aircraft TT: 5199.7 :: #1Engine TSMOH; 1174.9 :: #1Propeller SMOH: 372.8 :: #2 Propeller SMOH: 372.8 :: #2 Engine TSMOH: 1174.9 Completed Operation #4 inspection items per the Cessna 414A Maintenance manual progressive care inspection form. t certify that this Propelleras been inspected in accordance with an Operation #4 inspection and wal determined to be in dimonthy condition. Signed John & Sheehan A+P 3439269 IA Shoreline Shoreline Aviation, Inc. VIATION Marshileld Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 Cessna 414A, serial # 414A-0317 Propeller 1 Logbook 9/13/2021 N414MP Hobbs Hours: 1411.0 ::: Aircraft TT: 5233.6 ::: #1 Engine TSMOH: 1208.8 :: #1Propeller SMOH: 406.7 ::: #2 Propeller SMOH: 406.7 ::: #2 Engine TSMOH: 1208.8 :: Heater Hobbs: 570.7 Cessna 414A Inspection Operation 1 items per the Cessna 414A Maintenance manual progressive care inspection form. I certify that this Propeller has been inspected in accordance with an Operation #1 inspection and was determined to be in an airworthy condition. Signed Jason Greene A+P 4511427 Shoreline Shoreline Avlation, inc. TATION Marshield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 3/7/2022 N414MP Cessna 414A, serial # 414A-0317 Propeller 1 Logbook Hobbs Hours: 1501.6 :: Aircraft TT: 5324.2 :: #1 Engine TSMOH: 1299.4 :: #1Propeller SMOH: 497.3 :: #2 Propeller SMOH: 497.3 :: #2 Engine TSMOH: 1299.4 :: Heater Hobbs: 601.9 Completed Operation #3 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form. I certify that this Propeller has been inspected in accordance with an Operatioin #3 inspection and was determined to be in an airworthy condition. Signed Jason Greene A+P 4511427 Shoreline Shoreline Aviation, Inc. **IATION** Marshfleid Municipal Airport George Hartow Field (GHG) 93 Old Colony Lane Marehfield MA 02050 9/13/2022 N414MP Cessna 414A, serial # 414A-0317 Propeller 1 Logbook Hobbs Hours: 1587.5 :: Aircraft TT: 5410.1 :: #1 Engine TSMOH: 1385.3 :: #1Propeller SMOH: 583.2 :: #2 Propeller SMOH: 583.2 :: #2 Engine TSMOH: 1385.3 :: Heater Hobbs: 606,1 Completed Operation #1 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form. I certify that this Propeller has been inspected in accordance with an Operation #1 inspection and was determined to be in an airworthy condition. Signed

Page No.			AVIATION	Shoreli	ne Aviation, Inc.		-	
DATE				George	Id Municipal Airport Harlow Field (GHG) Polony Lane		c	PRK
Carlo Maria	7/10/2010	Madante		Marshfie	d. MA 02650		-	
An and a straight of the second	7/19/2019 Hobbs Hours: 1	N414MP	Cessna 4	14A, serial # 414	A-0317	Propeller 1 Lo	gbook	
	844.0 :: #2 Pr	op SMOH: 51.3	3 3 3 3 4009.5 :: #1	Prop 11: 844.0 ::	#1 Prop TSMOH	: 51.3 :: #2 Prop T	Γ:	
	Cessna 414A I							
	The above work and is approved	k was complete for return to se	d in accordance w ervice for the work	/ith current regulat	ions of the Federa	Aviation Administra	tion	
			STAICE TO THE WOLK	accomplished.				
	Shoreline Aviati 93 Old Colony L						-	
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			AVIATION	Shore	line Aviation, Inc.			
		-	IN INTION		eki Municipal Airport			
				George	Harlow Field (GHG)			
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10/2023	N414MP			114A, serial # 414			•	ler 1 Logboo
obbs Hours: 165	8.2 :: Aircraft TT	: 5480.8 :: #1	Engine TSMOH: :	28.3 :: #1Propel	er SMOH: 653.9	:: #2 Propeller SMC	DH: 653.9 💠	#2 Engine
	Heater Hobbs: 612					1 A A		
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sentity that this P	ropeller has been	inspected in a	ccordance with an	Operation #3 ins	bection bud was	stempined to be in a	an airworthy	condition.
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0/25/2023			AVIATION	V Shore Georg 93 Ord Marsh	illne Aviation, Inc.	hn E. Sheehan A+F		
	N414MP	T. 5547.2 #	AVIATION	Marsh Georg 93 Otd Marsh 414A, serial # 41	Jo Sight Aviation, Inc. Sield Municipal Airport & Harlow Field (GHG) Colony Lane Field, MA 02050 4A-0317		Prope	lier 1 Logbo
lobbs Hours: 17		T: 5547.2 :: #1 3.8	AVIATION	Marsh Georg 93 Otd Marsh 414A, serial # 41	Jo Sight Aviation, Inc. Sield Municipal Airport & Harlow Field (GHG) Colony Lane Field, MA 02050 4A-0317	hn E. Sheehan A+F	Prope	ller 1 Logbo
SMOH: 94.7 ::	24.6 :: Aircraft T Heater Hobbs: 61	3.8	Cessna I Engine TSMOH:	Marshi Georg 93 Old Marshi 414A, serial # 41 94.7 :: #1Prope	Jo Silne Aviation, Inc. Sield Municipal Airport & Harlow Field (GHG) Colony Lane field. MA 02050 4A-0317 lier SMOH: 720.3	:: #2 Propeller SM	Prope	lier 1 Logbo
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# PROPELLER MAINTENANCE RECORDS

Aircraft Registration	NHIHMP
<b>Propeller Position</b>	Right
<b>Propeller Serial No.</b>	E876298

HAF		PROPEL PECTION	LER IN	C Item	Number: (	C3F00270		Work		9/4/2012 M614560	
Model Nun	nber PHC-C	3YF-2UF/F	C7693DFB								
Ass'y Ser I EB7629		Hydr Unit NA	No. É	Bulkhead No NA	ı.	Valve	No. NA				
Blade 1:L: Clamp 1:	27734						Blade 6:				
Reverse NA	Start Lock NA	Low Pitch 13.0	High Pitch 18.0	Feather 81.1	Position 2	Orient L	. Qty:Al 0	St 0	Scrw 2	A-2424-1 0	Washer 0
Ref Radius	(inches) for	r angles:	30		3	L	2	0	0	0	2
	:: : 5E2748-1	Includ	led but not								
Packing Certified E Inspected	By: M By: Tim Je:	MP.		2-5-12							

The approved design data for this propeller incoporates all changes required by applicable Airworthiness Directives.



# PROPELLER **MAINTENANCE RECORDS**

Lõg	NO
Aircraft Registration No. <u>N414MP</u>	
Propeller Manufacturer <u>Hartzell</u>	
Hub Model PHC-C3YF-2UF/FC7693DFB	
Blade Design No	
Hub Serial No	
Blade Serial No's.         1.       L27734         2.       L27735         3.       L27741         4.	
Pitch Range: High <u>12.0</u> Low <u>13.0</u> Feather <u>81.1</u> Reverse <u>N/A</u>	
Governor Manufacturer Model No Serial No	
Date installed on aircraft Time Between Overhauls (TBO) Hours	
If used on multi-engine aircraft: □ Left   ☑ Right □ Front   □ Rear	
(All applicable information must be filled in)	
Waco Regional Airport • P.O. Box 5219 • Waco, Texas 76708 FAX 254-752-3307	1-800-44
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		(R)	MODEL:	PHC-C3YF-2UF	DATE:	07-22-2013	
	CHEROKEE COUNTY A				TACH:	0208.6	
	<b>1800 AIRPORT DRIVE</b>			414A-0317	TOTAL:	0000.0	
	BALL GROUND, GA.		PROP S/N:				
	THIS PROPELLER INSTALLED	IN LEFT POS	SITION OF NAT	AMP TRACK CUECEL	D RETTIONE	D TO SERVICE	-
-	1. 1			4MF. TRACK CHECKE	D. KEIUKNE	D TO SERVICE.	-
-	SIGNED:	" Han	hill		CERT#:	3479116 A&P IA	
		r					
		AVIA	eline FION	Shoreline Aviation, Inc.		ź	
			TION	Marshlield Municipal Airport			
				George Harlow Field (GHG)			
				93 Old Colony Lane Marshfield, MA 02050			
/2013	N414MP		essna 414A, ser	ial # 414A-0317		Propeller 2 Log	jboa
	rs: 232.1 ::: Aircraft TT: 4054.7 :: #. annual inspection per FAR 43, appen			noint manual (not if from			
	this Propeller has been inspected in					thy condition	
		CONTRACTOR AND	a an annudi inspi	eeson and was determined t	о реплала/гwo	any condition,	
	viation, Inc. ny Lane						
hfield, I	MA 02050				1 1	11	
837-852	21			Signed Gelwan	1 191	Maple	
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		AVIAT	line	Shoreline Aviation, Inc.			
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				Warshfield Municipal Airport George Harlow Fletd (CHG)			
:015	N414MP			George Harlow Field (GHG) 93 Old Colony Lane Marshmeld, MA 92050		Propeiler 2 Log	bool
		Ce	sana 414A, seria	George Harlow Field (GHG) 93 Old Colony Lane Marshnedd, MA 02050 al # 414A-0317	eiler ⊺⊤: 165.1	Propeiter 2 Logi	
	N414MP s: 373.1 :: Aircraft TT: 4195.7 :: #1 T: 2622.6 :: #2 Engine SMOH: 165.	Ce. Engine TT: 33	sana 414A, seria	George Harlow Field (GHG) 93 Old Colony Lane Marshnedd, MA 02050 al # 414A-0317	eller TT: 165.1	• •	
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s Hours gine Ti leted O fy that ti nined to line Avi d Colon afield, M	s: 373.1 :: Aircraft TT: 4195.7 :: #1 T: 2622.6 :: #2 Engine SMOH: 165. Operations #3 & #4 inpsection items p this Propeller has been inspected in a o be in an airworthy condition iation, Inc. ny Lane MA 02050	Ce Engine IT: 33 1 er the Cessna -	<b>sana 414A, seria</b> 26.1 :: #1 Engir 414A Maintenand	George Harlow Field (GHG) 93 Old Colory Lane Marshmed, MA 02050 al # 414A-0317 re SMOH: 165.1 :: #1 Prop e manual progressive care a #4 of the Cessna Progress signed	inspection form. sive Care inpsec	:: #2 Propeller TT: 165.1 tion program and was	
s Hours gine Ti leted O fy that ti nined to line Avi d Colon field, M	s: 373.1 :: Aircraft TT: 4195.7 :: #1 T: 2622.6 :: #2 Engine SMOH: 165. Operations #3 & #4 inpsection items p this Propeller has been inspected in a o be in an airworthy condition iation, Inc. ny Lane MA 02050	Ce. Engine TT: 33. There the Cessna - excordance with	<b>sana 414A, seria</b> 26.1 :: #1 Engir 414A Maintenand	George Harlow Field (GHG) 93 Old Colory Lane Marstmed, MA 02050 al # 414A-0317 the SMOH: 165.1 :: #1 Prop the manual progressive care a #4 of the Cessina Progress Signed EUW-W Edw	inspection form. sive Care inpsec	:: #2 Propeller TT: 165.1 tion program and was	



Shoreline Aviation, Inc.

Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lana Marshileid, MA 02050

#### 7/2/2015 N414MP

## **Propeller 2 Logbook**

Hobbs Hours: 422.1 :: Aircraft TT: 4244.7 :: #1 Engine TT: 3377.3 :: #1 Engine SMOH: 216.3 :: #1 Propeller TT: 216.3 :: #2 Propeller TT: 216.3 :: #2 Engine TT: 2673.8 :: #2 Engine SMOH: 216.3

Cessna 414A, serial # 414A-0317

Completed Inspection Operation 1 in accordance with Cessna Model 414A Maintenance Manual (50 hour inspection items)

I certify that this Propetler has been inspected in accordance with a operation #1 inspection and was determined to be in an airworthy condition.

d Colony Lane nfield, MA 02050 137-8521		Sim.	Jole A	P
I. I. I.		ଧ୍ୟାନ	John E. S	Sheehan A+P 3439269 IA
	AVIAT	line YON Shor	Nine Aviation, Inc.	
	EN IAI		Relet Municipal Airport	
		Georg 98 Ok	e Harlow Field (GHG) I Colony Lane	
7/2015 N414MP	Ce	Marsh <b>38na 414A, serial # 4</b>	field, MA 02050 <b>14A-0317</b>	Propetler 2 Logi
bbs Hours: 472.6 :: Aircra	ift TT: 4295.2 :: #1 Engine TT: 342			r TT: 266.8 :: #2 Propeller TT: 266.8
Engine SMOH: 266.8 .: F	leater Hobbs: 419.0 ection items per the Cessna 414A M			
above work was complete	ed in accordance with current regula	tions of the Federal A	viation Administration and i	is approved for return to service for the
ka <u>ccamplished</u> — —				
1. Approving Civil Avlation 2. Authority/ Country:			A:	3. Form Tracking Number:
FAA/ United States	AUTHORIZED R			42149
Organization Name and Address		AIRWORTHINESS AP	PROVAL TAG	5, Work Order/Contract/Invoice Number
	Propeller Service, Inc		Drive (P.O. Box 244)	
FAA RSN RC			n, CT 06423-2388 94 · Fax: (860) 873-2388	CR- 42149
EASA 145.597	and the second	1 2 4 2		
	Part Number: PHC-C3YF-2UF	9. Quentity:	10. Serial Number:	11. Status/Work:
PROPELLER	FC7693DFB		EB 7629B	REPAIRED
Remarks:	D AND REPAIRED IN ACCORDANCE WITH N		117DE16,2021	4, VGR33, V7A38, V8RS1
IE FOLLOWING WORK WAS PER	RFORMED:	MANUTAUT DACK S MANUA		UIIK35
	PROPELLER CYLINDE	R REMOVED. PISTON	AND ROD FLUSHED	
	FOR POSSIBLE OIL O	ONTAMINATION, NEW !	SEALS INSTALLED,	
	ONLY WORK PERFOR			
		1		
Certifies the items identified a	bove were manufactured in conformity to:	14a, X14 C	FR 43,9 Return to Service	Other regulation specified in Block 12
Approved design data and a	re in a condition for safe operation.	Certifles that	it unless otherwise specified in B	liock 12, the work identified in Block
□ Non-approved design data s	pecified In Block 12	11 and des of Federal F	cribed in Block 12 was accomplis Regulations, part 43 and in respe	shed in accordance with Title 14, Code of to that work, the items are approved
Authoritand Clausetures	Too Approval/Authonization	for return to	service.	14c, Approval/Certificate No.:
). Authorized Signature:		-	1. C	RC2R130L
I. Name (Fried or Printed):	13e. Date (dd/mmm/ymy):	14d. Name (Typ	ed or Printed):	14a. Date (dd/mmm/yyyy) 09-101-2015
		1 1 1 1 1 1 V		
	. Use	r/Installer Responsibi	ities	ere the user/installer performs work in accordance with an ensures that his/her pirvorthiness authority accepts

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			-	AVIATION Shoreline Aviation, Inc. Variation Variation, Inc. Variation Variation, Inc. Variation Variation, Inc. Variation Variation, Inc. Variation, Inc.
	11/19/2015	N414MP		Cessná 414A, Serial Number 414A0317 Propeller 2 Logboo
	1) Reinstal 2) Engine ( The above wo	iled propeller or ground run up a ork was comple	Right engine al and functional ch	:: #2 Propeller TT: 281.5 after flush by CRS RC2R130L - see previous entry for more info.     theck OK with no oil leaks noted.     hoce with current regulations of the Federal Aviation Administration and is approved for     Signed     John 5 Sheehan A+P 3489269 IA
			Shor	reline
			AVIA	Marshiled Municipal Arport George Harlow Field (GHG) S3 Old Colony Lane Marshifeld. MA 02050
				Cessora 4148, serial # 4148-0317 Propeller 2 Logbo
the Hours: 50 Engine TT: 27 Inpleted Opera Itify that this / e in an airwor Ineline Aviation	756.2 :: #2 Eng ation #s 3 & 4 i Airframe has be thy condition. n, inc.	gine SMOH: 29 inpsection item	#1 Engine TT: 3 6.7 s per the Cessn	3459.7 :: #1 Engine SMOH: 298.7 :: #1 Propeller TT: 298.7 :: #2 Propeller TT: 298.7 :: na 414A Maintenance manual progressive care inspection form.
tos Hours: 50 Engine TT: 27 Inpleted Opera Itify that this / e in an airwor Ineline Aviation Did Colony Le Ishfield, MA	4.5 :: Aircraft 756.2 :: #2 Eng ation #'s 3 & 4 i Airframe has be thy condition. n, Inc. ine	gine SMOH: 29 inpsection item	#1 Engine TT: 3 6.7 s per the Cessn	3459.7 :: #1 Engine SMOH: 298.7 :: #1 Propeller TT: 298.7 :: #2 Propeller TT: 298.7 : ha 414A Maintenance manual progressive care inspection form. ith Operation 3 & 4 of the Cessna Progressive Care inspection program and was determine Signed
bs Hours: 50 Engine TT: 27 Inpleted Opera Itify that this / e in an airwor Ineline Aviation Did Colony Le Ishfield, MA	4.5 :: Aircraft 756.2 :: #2 Eng ation #'s 3 & 4 i Airframe has be thy condition. n, Inc. ine	gine SMOH: 29 inpsection item	#1 Engine TT: 3 6.7 s per the Cessn	3459.7 :: #1 Engine SMOH: 298.7 :: #1 Propeller TT: 298.7 :: #2 Propeller TT: 298.7 : ha 414A Maintenance manual progressive care inspection form. #th Operation 3 & 4 of the Cessna Progressive Care inspection program and was determine
bs Hours: 50 Engine TT: 27 Inpleted Opera Itify that this / e in an airwor Ineline Aviation Did Colony Le Ishfield, MA	4.5 :: Aircraft 756.2 :: #2 Eng ation #'s 3 & 4 i Airframe has be thy condition. n, Inc. ine	gine SMOH: 29 inpsection item	#1 Engine TT: 3 8.7 s per the Cessn n accordance wit	3459.7 :: #1 Engine SMOH: 298.7 :: #1 Propeller TT: 298.7 :: #2 Propeller TT: 298.7 : ha 414A Maintenance manual progressive care inspection form. ith Operation 3 & 4 of the Cessna Progressive Care inspection program and was determine Signed
bs Hours: 50 Engine TT: 27 Inpleted Opera Itify that this / e in an airwor oreline Aviation Old Colony Le Ishfield, MA	4.5 :: Aircraft 756.2 :: #2 Eng ation #'s 3 & 4 i Airframe has be thy condition. n, Inc. ine	gine SMOH: 29 inpsection item	#1 Engine TT: 3 8.7 s per the Cessn n accordance wit	3459.7 :: #1 Engine SMOH: 298.7 :: #1 Propeller TT: 298.7 :: #2 Propeller TT: 298.7 :: ha 414A Maintenance manual progressive care inspection form. ith Operation 3 & 4 of the Cessna Progressive Care inspection program and was determine SignedLaurence P. Mulloy A+P 23507120 Shoreline VIATION Shoreline Aviation, Inc. Marshletd Municipal Aircort Gaorge Harlow Field (GHG) 93 Old Colony Lane
Engine TT: 27 npleted Open rtify that this / e in an airwor oreline Aviation Old Colony La shfield, MA ( -837-8521	4.5 :: Aircraft 756.2 :: #2 Eng ation #'s 3 & 4 i Airframe has be thy condition. n, Inc. une 02050 6/17/2016 Hobbs Hours: 9 Engine TT; 280 Completed Opd 1 certify that this	npsection item en inspected ir N414MP 554.1 :: Aircra 5.8 :: #2 Eng eration 1 inspected s Propeller has	#1 Engine TT: 3 6.7 s per the Cesson accordance with accordance accord	3459.7 :: #1 Engine SMOH: 298.7 :: #1 Propeller TT: 298.7 :: #2 Propeller TT: 298.7 ::         a 414A Maintenance manual progressive care inspection form.         #h Operation 3 & 4 of the Cessna Progressive Care inspection program and was determined         Signed
ibs Hours: 50 Engine TT: 27 Inpleted Open rtify that this / e in an airwor oreline Aviation Did Colony Le shfield, MA -837-8521	4.5 :: Aircraft 756.2 :: #2 Eng ation #'s 3 & 4 i Airframe has be thy condition. n, Inc. une 02050 6/17/2016 Hobbs Hours: 9 Engine TT; 280 Completed Opd 1 certify that this	npsection item en inspected ir N414MP 554.1 :: Aircra 5.8 :: #2 Eng eration 1 inspected s Propeller has	#1 Engine TT: 3 6.7 s per the Cesson accordance with accordance with the secondance with accordance accordan	3459.7 :: #1 Engine SMOH: 298.7 :: #1 Propeller TT: 298.7 :: #2 Propeller TT: 298.7 :: ma 414A Maintenance manual progressive care inspection form.         ith Operation 3 & 4 of the Cessna Progressive Care inspection program and was determine         Signed
tos Hours: 50 Engine TT: 27 Inpleted Open rtify that this / e in an airwor oreline Aviation Old Colony La shfield, MA -837-8521	4.5 :: Aircraft 756.2 :: #2 Eng ation #'s 3 & 4 i Airframe has be thy condition. n, Inc. une 02050 6/17/2016 Hobbs Hours: 9 Engine TT; 280 Completed Opd 1 certify that this	npsection item en inspected ir N414MP 554.1 :: Aircra 5.8 :: #2 Eng eration 1 inspected s Propeller has	#1 Engine TT: 3 6.7 s per the Cesson accordance with accordance with the secondance with accordance accordan	3459.7 :: #1 Engine SMOH: 298.7 :: #1 Propeller TT: 298.7 :: #2 Propeller TT: 298.7 :: ma 414A Maintenance manual progressive care inspection form.         ith Operation 3 & 4 of the Cessna Progressive Care inspection program and was determined         Signed
bs Hours: 50 Engine TT: 27 npleted Open rtify that this / e in an airwor oreline Aviation Old Colony Le shfield, MA ( -837-8521	4.5 :: Aircraft 756.2 :: #2 Eng ation #'s 3 & 4 i Airframe has be thy condition. n, Inc. une 02050 6/17/2016 Hobbs Hours: 9 Engine TT; 280 Completed Opd 1 certify that this	npsection item en inspected ir N414MP 554.1 :: Aircra 5.8 :: #2 Eng eration 1 inspected s Propeller has	#1 Engine TT: 3 6.7 s per the Cesson accordance with accordance with the secondance with accordance accordan	3459.7 :: #1 Engine SMOH: 298.7 :: #1 Propeller TT: 298.7 :: #2 Propeller TT: 298.7 ::         a 414A Maintenance manual progressive care inspection form.         #h Operation 3 & 4 of the Cessna Progressive Care inspection program and was determined         Signed

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Shoreline Shoreline Aviation, Inc. VIATION Marshlietd Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 9/23/2016 Cessna 414A, serial # 414A-0317 N414MP Propeller 2 Logbook Hobbs Hours: 645.3 ;; Aircraft TT: 4467.9 ;; #1 Engine TT: 3600.5 ;; #1 Engine TSMOH: 439.5 ;; #1 Propeller TT: 439.5 ;; #2 Propeller TT; 439.5 :: #2 Engine TT: 2897.0 :: #2 Engine TSMOH: 439.5 :: Heater Hobbs: 436.3 Completed Operation #3 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form. Ground runup and functional checks were satisfactory with no grease or oil leaks noted. I certify that this Propeller has been inspected in accordance with an Operation #3 inspection and was determined to be in an airworthy condition. loral Signed Ellunud Edward J. Novak Jr. A+P 2832024 IA Shoreline VIATION Shoreline Avlation, Inc. Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 5/25/2017 N414MP Cessna 414A, serial # 414A-0317 Propeller 2 Logbook Hobbs Hours: 725.7 :: Aircraft TT: 4548.3 :: #1 Engine TT: 3683.2 :: #1 Engine TSMOH: 522.2 :: #1 Propeller TT: 522.2 :: #2 Propeller TT: 522.2 :: #2 Engine TT: 2979.7 :: #2 Engine TSMOH: 522.2 Completed Operation #1 inspection items per the Cessna 414A Maintenance manual progressive pare inspection form i certify that this Propeller has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition. Signed John E Sheehan A+P 3439269 IA Shoreline TATION Shoreline Aviation, Inc. Marshfield Municipal Airport George Narlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 7/19/2017 N414MP Cessna 414A, serial # 414A-0317 Engine 2 Logbook Hobbs Hours: 773.0 :: Aircraft TT: 4595.6 :: #2 Engine TT: 3731.6 :: #2 Engine SMOH: 570.6 AD2000-01-16 Complied with AD2000-01-16 paragraph b no defects noted at this time. Next due HOBBS: 823.0 The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished. Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521 chall I de Signed Donald L. Herrington A&P 1989767 Shoreline VIATION Shoreline Aviation, Inc. Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Golony Lane Matshfield, MA 02050 9/1/2017 N414MP Cessna 414A, serial # 414A-0317 Propeller 2 Logbook Hobbs Hours: 818.0 :: Aircraft TT: 4640.6 :: #1 Engine TT: 3775.8 :: #1 Engine TSMOH: 614.8 :: #1 Propeller TT: 614.8 :: #2 Propeller TT: 614.8 :: #2 Engine TT: 3072.3 :: #2 Engine TSMOH: 614.8 :: Heater Hobbs: 454.1 Completed Operation #3 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form. I certify that this Engine has been inspected in accordance with an Operation #3 inspection and was determined to be in/an adworthy condition. Signed Controlly Edward J. Novak Jr. A+P 2832024 IA



Shoreline Avlation, Inc. 2

Marshfield Municipal Airport George Harlow Field (GHG) S3 Old Colony Lane Marshfield, MA 02050

#### 7/6/2018 N414MP

Cessna 414A, serial # 414A-0317

Propeiler 2 Logbook

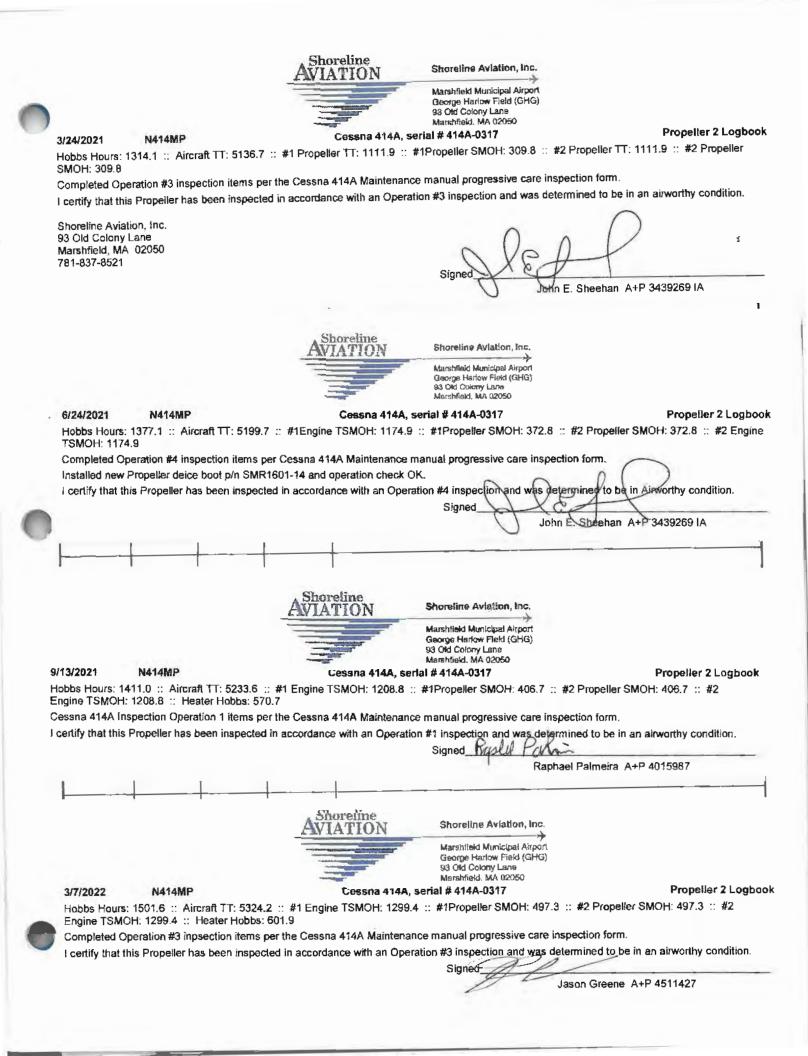
Hobbs Hours: 908.2 :: Aircraft TT: 4730.8 :: #1 Engine TT: 3866.0 :: #1 Engine TSMOH: 705.0 :: #1 Propeller TT: 705.0 :: #2 Propeller TT: 705.0 :: # Completed Operation #1 inspection items per the Cessna 414A Maintenance manual progressive care inspection form.

I certify that this Propeller has been inspected in accordance with an Operation #1 inspection and was determined to be in an airworthy condition

Hobbs Hours: 958.3 :: Aircraft TT: 4780.9 :: #1 Engine TT: 3922.2 :: #1 Engine TSMOH: 761.2 :: #1 Propeller TT: 761.2 :: #2 Propeller TT: 761.2 :: #	Shoreline Aviation 93 Old Colony La Marshfield, MA 0: 781-837-8521	ne		signed PEA	
AVIATION Shoreline Aviation, Inc. Signed Longe Handberg Market Argon Barget House Care in Special Constraints and the special of the specia	I			John-E. Sh	eehan A+P 3439269 IA
Bit Statistics       Statistics       Machine Statistics       Propetter 2 Log         9/20/2018       N414MP       Cessna 414A, serial # 414A-0317       Propetter 2 Log         Hobbs Hours: 958.3 : Aircraft TT: 4760.9 :: #1 Engine TT: 392.2 :: #1 Engine TS: MOH: 761.2 :: #2 Propetter TT: 761.2 :: #1 Engine TT: 302.2 :: #1 Engine TT: 302.2 :: #1 Engine TT: 302.2 :: #1 Engine TT: 761.2 :: #2 Propetter TT: 761.2 :: #1 Propetter TT: 761.2 :: #2 Propetter TT: 761.2 :: #2 Propetter TT: 761.2 :: #1 Propetter TT: 761.2 :: #2 Propetter TT: 761.2 :: #1 Propetter TT: 761.2 :: #1 Propetter TT: 761.2 :: #2 Propetter TT: 761.2 :: #1 Propetter TT: 776.2 :: #2 Propett		£ L		Marshileki Mankcipal Airport	
Hobbs Hours: 956.3 :: Aircraft TT: 4760.9 :: #1 Engine TT: 3922.2 :: #1 Engine TSMOH: 761.2 :: #1 Propeller TT: 761.2 :: #2 Propeller TT: 761.2 :: #				93 Old Colony Lana	
761.2 ::: #2 Engine TT: 3218.7 ::: #2 Engine TSMOH: 761.2 ::: Heater Hobbs: 476.0         Completed Operation #2 inspection items per the Cessna 414A Maintenance manual progressive care inspection form.         1 certify that this Propeller has been inspected in accordance with an Operation #2 inspection and was determined to be in an airworthy condition         Shoreline Aviation, inc.         93 Old Colony Lane         Marshfield, MA 02050         781-837-8521         Shoreline Aviation, inc.         93 Old Colony Lane         Marshfield, MA 02050         781-837-8521         Shoreline Aviation, inc.         93 Old Colony Lane         Marshfield, MA 02050         781-837-8521         Shoreline Aviation, inc.         93 Old Colony Lane         Marshfield, MA 02050         781-837-8521         Shoreline Aviation, inc.         93 Old Colony Lane         Marshfield, Macopa Arport         George Hardword Kiel (OH2)         Shoreline Aviation, inc.         1 Certify that this Engine TT: 4816.7 :: #1 Engine TT: 0958.6 :: #1 Engine TT: 97.6 :: #2 Propeller TT: 797.6 :: #2 Propeller TT: 797.6 :: #2 Engine TSMOH: 797.6 :: #1 Engine TT: 0958.6 :: #1 Engine TT: 095.6 :: #1 Propeller TT: 797.6 :: #2 Propeller TT: 797.6 :: #2 Engine TSMOH: 797.6 :: #2 Engine TSMOH: 797.6 :: #2 Engine TSMOH: 797.6 :: #2 Propeller TT: 095.6 :: #1 Propeller TT: 095.6 :: #1 Propeller TT: 095.6 :: #1 P					Propeller 2 Logbook
Shoreline VIATION       Shoreline Avlation. Inc.         Marabilest Municipal Argort George Harrow Fleid (GH3) 39 Okt Colony Lane Marabilest Municipal Argort George Harrow Fleid (GH3) 39 Okt Colony Lane Marabilest Municipal Argort George Harrow Fleid (GH3) 39 Okt Colony Lane Marabilest Municipal Argort Bandwith Ad Addedo         4/19/2019       N414MP       Cessna 414A, serial # 414A-0317       Propeller 2 L Marabilest Municipal Argort George Harrow Fleid (GH3) 39 Okt Colony Lane Marabilest Municipal Argort 197.6 :: #2 Engine TT: 4816.7 :: #1 Engine TT: 3958.6 :: #1 Engine TSMOH: 797.6 :: #1 Propeller TT: 797.6 :: #2 Propeller 797.6 :: #2 Engine TT: 3255.1 :: #2 Engine TSMOH: 797.6 :: Heater Hobbs: 491.6         Completed Operation #3 & #4 inspection items per the Cessna 414A Maintenance manual progressive care inspection form.         I certify that this Engine, has been inspected in accordance with an Operation #3 & #4 inspection and was determined to be in an airworthy co Marshified, MA 02050 781-837-8521         Signed       Marshified, MA 02050 781-837-8521	Shoreline Aviation, 93 Old Colony Lan Marshfield, MA 02	, inc. e		Signed Denall Han	ington 1939767
AVIATION AVIATION AVIATION Shoreline Avlation, Inc. Marshiled Municipal Airport George Harlow Field (GHG) St Colory Lane Marshiled, MA 02050 A/19/2019 N414MP Cessna 414A, Serial # 414A-0317 Propelier 2 L Marshiled, MA 02050 781-837-8521 Propelier 2 L Marshiled Municipal Airport George Harlow Field (GHG) St Colory Lane Marshiled Manacottance Marshiled Manacottance Marsh	1				
4/19/2019       N414MP       Cessna 414A, serial # 414A-0317       Propeller 2 L         Hobbs Hours: 994.1 :: Aircraft TT: 4616.7 :: #1 Engine TT: 3958.6 :: #1 Engine TSMOH: 797.6 :: #1 Propeller TT: 797.6 :: #2 Propeller 797.6 :: #2 Engine TT: 3255.1 :: #2 Engine TSMOH: 797.6 :: Heater Hobbs: 491.6       Completed Operation #3 & #4 inspection items per the Cessna 414A Maintenance manual progressive care inspection form.       I certify that this Engine has been inspected in accordance with an Operation #3 & #4 inspection and was determined to be in an airworthy control of the control o			AVIATION	Marshfield Municipal Airport George Harlow Field (GH3) 93 Old Colory Lane	
797.6 :: #2 Engine TT: 3255.1 :: #2 Engine TSMOH: 797.6 :: Heater Hobbs: 491.6 Completed Operation #3 & #4 inspection items per the Cessna 414A Maintenance manual progressive care inspection form. I certify that this Engine has been inspected in accordance with an Operation #3 & #4 inspection and was determined to be in an airworthy co Frozeller Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-037-8521 Signed	4/19/2019	N414MP	Сезепа 414А		Propelier 2 Logboo
Edward J. Novak Jr. A+P 2832024 IA	797.6 :: #2 En Completed Ope I certify that this Shoreline Aviati 93 Old Colony I Marshfield, MA	gine TT: 3255.1 :: #2 eration #3 & #4 inspecti Engine, has been insp Propelle ion, inc.	Engine TSMOH: 797.6 :: Heater I on items per the Cessna 414A Ma	Hobbs: 491.6 intenance manual progressive care in ation #3 & #4 inspection and was dete	spection form. rmined to be in an airworthy condition.
5/13/14 Holts 10050 TSW: 8085 Prop. removed for 0/H due to 6 yes				6	U U
SUB-TOTALS this page Atp 2832024IA	5/13/19	Holts 10050	life	limit Edward A	I due to 6 year Mouch J 2024IA
TOTALS—Carry forward to next page					

P	T.T.S.N.: 808.50		S/N EB7629 /ERHAUL. BLADES R		-			
	TTSO: 00.00	ELODEOO	THE OFFICE ADES R	EFINISHED. PA	RTS			
1. Appro	ving Civil Aviation	2	AUTHORIZED		DTICIOATE			cking Number:
	nb/Country: /United States	٤.	FAA Form 8130-3, A			TAG		45238
4. Organ	zation Name and Addre	56:					5. Work Ord	er/Contract/Invoice N
	New Englar FAA RSN R EASA 145.5		ervice, Inc		Drive n, CT 06423-23 94 · Fax: (860)			CR-45238
6. Item:	7. Description;	8. Part Number:		9. Quantity:	10. Serial Nurr		11. Status/W	orik:
	Hartzell-Propeiler		IC-C3YF-2UF FC7693DFB	1	E	B7629B		Overhauled 1
12. Rem THIS PR			WITH MANUFACTURER'S M	I	117DR18 202A V3R38 202A V9R31			8 202A VBR3
MAJOR	wing work was perform	ied: S REFINISHED. I	nd Propeller Service, Inc. u PARTS FLORESCENT P RACKED, BALANCED, C	ENETRANT INSP	ECTED MAGN			E REQUIRED.
Etade S	erial #'s:	1.)	2.)	3.)	4.)	5.)	(6.)	-
Diade S	<u>erial # 5.</u>	L27734	L27735	L27741	N/A	N/A	NA	
The follow	ing Service Bulletins ha	ve been complied wi	th		nclature	Part #	Ohu	Danaa
1	1-118FR1			LOW PITCH		A2404-1	Qty.	Reason STRIPPED
				Lowriter	5101	1.0.404-1	4 4	ISTRICTED
							-	
			AVIATIO	Marsh	field Municipal Airpo	<b>→</b> ort		
				93 D/d	e Harlow Field (GH) I Colony Lane field, MA 02050	3)		
			Cessna	414A, serial # 4				Propeller 2 Log
5/23/2019	N414MP		:: #1 Propeller TT: 80	8.5 :: #1Propell	ler SMOH: 0.0	:: #2 Propeller	TT: 808.5 ::	#2 Propeller SM
Hobbs Ho	N414MP urs: 1005.0 :: Airc	raft TT: 4827.6						
Hobbs Ho 0.0	urs: 1005.0 :: Airc			aul as shown or	the previous r	bage. Ground ri	inup and fund	ctional checks
Hobbs Hor 0.0 This prope completed	urs: 1005.0 :: Airo ller reinstalled onto with no oil or grea	o the RH side of se leakage note	this aircraft after overh d. Functional check of	f propeller heat s	ystem was nor	mal.		
Hobbs Ho 0.0 This prope completed The above	urs: 1005.0 :: Airo ller reinstalled onto with no oil or grea	o the RH side of se leakage note	this aircraft after overh	f propeller heat s	ystem was nor	mal.		
Hobbs Ho 0.0 This prope completed The above the work a	urs: 1005.0 :: Airc ller reinstalled onto with no oil or grea work was complet ccomplished.	o the RH side of se leakage note	this aircraft after overh d. Functional check of	f propeller heat s	ystem was nor	mal.		
Hobbs Hol 0.0 This prope completed The above the work a Shoreline a 93 Old Col	urs: 1005.0 :: Airo ller reinstalled onto with no oil or grea work was complet ccomplished. Aviation, (nc. ony Lane	o the RH side of se leakage note	this aircraft after overh d. Functional check of	f propeller heat s	ystem was nor	mal.		
Hobbs Hol 0.0 This prope completed The above the work a Shoreline a 93 Old Col	urs: 1005.0 :: Airo ller reinstalled onto with no oil or grea work was complet ccomplished. Aviation, (nc. ony Lane (MA 02050	o the RH side of se leakage note	this aircraft after overh d. Functional check of	f propeller heat s	ystem was nor	mal.		
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		AVIATION	Shoreline Avlation, Inc.	
			George Harlow Field (GHG)	
			93 Old Colony Lane Marshfield, MA 02050	
/13/2022	N414MP	Cessna 414A, s	erial # 414A-0317 Propeller 2 Log	abook
obbs Hours:	1587.5 :: Aircraft TT: 5410		:: #1Propeller SMOH: 583.2 :: #2 Propeller SMOH: 583.2 :: #2	9.000
Completed Op	H: 1385.3 :: Heater Hobbs: eration #1 inpsection items	605.1 per the Cessna 414A Maintenand	e manual progressive care inspection form.	
certify that thi	s Propeller has been inspec	sted in accordance with an Opera	ion #1 inspection and was determined to be in an airworthy condition Signed_ Robul Policy	n.
			Raphael Palmeira A+P 4015987	
			f	
		AVIATION	Shoreline Aviation, Inc.	
			Marshfield Municipal Airport	
			George Harlow Field (GHG)	
			93 Old Colony Lane Marshfield, MA 02050	
5/10/2023	N414MP	Cessna 4144		orb.
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TSMOH: 28.2	3 :: Heater Hobbs: 612.5	0.6 #I Engine ISMUH: 28.3	: #1Propeller SMOH: 653.9 :: #2 Propeller SMOH: 653.9 :: #2 Er	igine
		e por the Cosses 4444 Mainten		
I certify that t	his Propeller has been insp	ected in accordance with an annu	ice manual progressive care inspection form. al inspection and was determined to be in an airworthy condition.	
			Signed John E. Sheehan A+P 3439269 IA	
			John E. Sheenah A+P 3439269 IA	
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		SUB-TOT/	L\$ this page	

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# N414MP FORM 337s

	DEPARTMENT OF TR			Form Budge	Approved et Bureau N	o. 04-R06	0.1
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	MAJOR REPAIR AN			OFFIC	E IDENTIFIC		-
	(Airframe, Powerplant, P						
INSTRUCT for instructi	IONS: Print or type all entries. See ons and disposition of this form.	E FAR 43.9, FAR 43 A	ppendix B, and .	AC 43.9-1 (or	subsequent .	revision th	ereof
	Cessna		MODEL	1.71.0			
1. AIRCRAFT	SERIAL NO.	NATIONALITY AND REGIS			14A		
	414A0317			12686D			
1	NAME (As shown on registration certi	ficate)	ADDRESS (A	s shown an regis	tration certif	îcate)	
2. OWNER	Standard Air Servi	ces, Inc. Buck Pond Rd. Westfield, Ma			c		
3. FOR				1010, M8	<u>• 010</u>	05	
	4. U	NIT IDENTIFICATION				5. T	YPE
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

- DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
  - Installed Bendix NCP 2040 RNAV System in accordance with STC SA98650 Dated 05/10/78. System interface includes NP2041A Nav Programmer, IN881A HSI and CN2012A Nav Receiver.
  - Installation and ground checks accomplished in accordance with Northeastern Avionics Inc. procedures approved by NE GADO letter dated 08/28/79.
  - 3. IFR Flight check accomplished on 04/17/80 in accordance with Northeastern Avionics Inc. approved procedures.
  - 4. RNAV approved for VFR, IFR Enroute and IFR approach.

END

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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

l. Bendix	FCS 870 Autonilat	/Flight Director w/	Vaw Dampan
		with STC SA 98580 1	
		installed in accor ns and AC43.13-1A:	rdance with
CN2012A	Comm/Nav	CN2012A	Comm/Nav
F2071A	ADF	DF2071A	ABF
TR2061A	TXP	TR2061A	TXP
IN2014A	Nav Ind	IN2072B	ADF Ind
IN2032A	DME Ind	NP2041A	Nav Programme:
RT131A	Radar RT	DALLLA	Radar Ant
DG882A	DG	INSSIA	HSI
SC883A	Slaving Control		Interfane Uni
DM2031A	DME RT	3604618-0501	Memory Timer
3604618-0501	Memory Timer	AT2033A	DME Ant
AT2073A/AM2073A	Comm/ADF Ant	AT2073A/AM2073A	Comm/ADF Ant
KA133	KRA 10 Ant	KRA10	KRA 10 RT
KI250	KRA 10 Ind	AD8	Marker Ant
3604529-0503	Cooling Kit	DH841V	Horizon
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ADDITIONAL SHEETS ARE ATTACHED

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INSTRUCT		all entries. See	FAR 43.9, FAR 43		AC 43.9-1.(o	MEL-GADA		ereo() i
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. attachme	inte bereto heve-bee	in made in accord	ade to the unit(s) lance with the requi true and correct to	identified in iten	63 of the U.S.			
June	e 30, 1989		SIGNATURE	OF AUTHORIZZO	Siele.	1.		1
Pursuant to the Adminis	the authority given	persons specified Aviation Admin	below, the unit id	entified in item 4	REJECTED		er plaice	bed by
AY INS	HIT, BTANDARDS		CANADIAN DE OF TRANSPOR OF ARCEAPT	THORIZATION PARTMENT INSPECTOR	DTHER (Specify)	1		
LEXECTION	430/89	CERTIFICATE OR DESIGNATION N CRS 4303	N. SIGNATURE	of AUTHORIZE	INDIVIDUA	0.0	ie.	-

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THA AIRCHARI MEGISIKI CAMERA NO. 2 N DATE: 70-19-89 and hear in NOTICE MAN YSTER Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airwolthiness requirements. 8. DESCRIPTION OF WORK ACCOMPLISHED, III more space is required, attach additional sheets. INSTALLED A "RAM" EXHAUST SLIP JOINT "RAM" P/N 1001-3 ON RIGHT EXHAUST MANIFOLD ON RIGHT ENGINE AS PEN, "RAM", STC SA4331SW, AND DRAWING #1153 ON N414MP, CESSNA 114A, S/N 414A0317. NO WEIGHT CHANGE. ALL WORK DONE AS PER AC43.13.1A and AC43.13.2A END END. The Punk With the set hit bir in X ..... THE SHOT T IT'S WHAT WE'S 147 412 11.7 JA The second state of the second states ADDITIONAL SHEETS ARE ATTACHED FAA AC 75 

		" DEPARTMENT, OF TRANSP	ORTATION		Form Approved	
Sec. 2		EDERAL AVIATION ADM	· · · · ·	ŧ	Budget Bureau N	USE ONLY
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14 A	(Airframe, P	owerplant, Prop	eller, or Applian	((0)	DPA-FSDC	AND.
	IONS: Print of typons and disposition		AR 43.9, FAR 43 App	indix 8, and AC 43.	9-1 (or subsequent	revision thereof)
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. OWNER		•		1	IFIRST BANK DI ILL 60067	R
	ART TECHNO	LOGIES, INC	3. FOR FAA USE ON	PALATINE,	ILL 60067	
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AIRFRAME		····· (A	a described in Item 1 of	2078) <del>**********</del> ***		XX .
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# NOTICE Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. As alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements. 🖄 8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional ships. craft nationality and registration mark and date work completed.) Identify with air-+ 12 m INSTALLED RAM EXHAUST SLIP JOINT P/N 1001+3 OR LEFT ENGINE EXHAUST MANIFOLD AS PER RAM. STC. SA4331SW AND DRAWING NO. 1153. ALL WORK DONE AS PER AC 43.13-14 AND 43.13-24 NO WEIGHT CHANGE END AL STREET Se Anterenou de and will Ste Pes Walt

ADDITIONAL SHEETS ARE ATTACHED

C . FAA AD 72-4006

		DEFAITMENT OF T				. Form Budg	Approved of Bureau N	AUG 1 0	
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

Description of Work Accomplished
 (If more space is required, atlach additional sheets. Identify with aircraft nationality and registration mark and data work completed.)

Installed Vortex Generators on the wings and vertical stabilizer and
 Strakes on the nacelles, and added the FAA Approved Flight Manual
 Supplement to the AFM, in accordance with manufacturer's drawing list
 DL-402C and Installation Instructions II-402C (P/N C-402C), per
 STC #SA5131NM, OPTION #2.

### Negligible weight change

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1. AIRCRAFT	MAKE	NA		MODEL	MODEL 414A			
I. AIKUKALI	SERIAL NO.	4A0317				REGISTRATION A	AARK	
2. OWNER	NAME (As shown on registration certificate)			26803	(As shown o W. APPLE GTON 600	on registration cert STREE LANE 110	lificate)	
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

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8. Description of Work Accomplished

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(If more space is required, attach additional sheets. Identity with aircraft nationality and registration mark and date work completed.)

Installed Vortex Generators on the wings and vertical stabilizer and Strakes on the nacelles, and added the FAA Approved Flight Manual Supplement to the AFM, in accordance with manufacturer's drawing list DL-402C and Installation Instructions II-402C (P/N C-402C), per STC #SA5131NM, OPTION #2<sup>1</sup>

Negligible weight change

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Additional Sheets Are Attached

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US Departmen of Transportate Federal Avian Administratio	n <b>(Airfra</b> i Ion	AJOR REPAIF ne, Powerplan						2120-0020 or FAA Use O	inly
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	<u> </u>			4. Unit Identificati	on			5. Type	1
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PROPELLER									
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	·		6.	Conformity State	ment	•			·
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Date				Signature of Auth	orized Indivi	dual			
			7. Adi	proval for Return T	o Service				
Pursuant t Administra	o the authority giver itor of the Federal Av	persons specified	below	, the unit identifie	d in item 4	was inspected	d in the ma	nner prescrit	ed by the
	A Fit. Standards spector	Manufacturer		Inspection Authoriz	ation	Other (Speci	fy)		1
	AA Designee	Repair Station		Person Approved b Canada Airworthin	y Transport ess Group				
Date of Appr	oval or Rejection	Certificate or Designation No.		Signature of Auth	orized Individ	dual		-	

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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets, Identify with aircraft nationality and registration mark and date work completed.) Leslie C. Hardison Cessna 414A s/n414A0317 N414MP  $\mathbf{J}_{\mathbf{v}}$ Conducted flight test evaluations in accordance with AC20-138 Paragraph 7c (1) (iv). Results were as follows: 1. Evaluate installed GPS navigation system to verify that it is functioning properly, safely, and operates in accordance with the manufacturer's specifications. 2. Evaluate steering response while the autopilot and/or flight director is coupled to the GPS equipment during a variety of different track and mode changes. All available display sensitivities should be evaluated. 3. Evaluate to verify the GPS installation does not adversely effect other onboard equipment. 4. Evaluate the accessibility of all controls pertaining to the GPS installation. 5. Evaluate the visibility of the controls, displays, and annunciators relating to the GPS installation during day and night lighting conditions. No distracting cockpit glare or reflections may be introduced and all controls must be illuminated for identification and ease of use. Night lighting shall be consistent with other cockpit lighting. 6. Validate GPS navigation system accuracy by checking against several points of known accuracy, visual landmarks and VOR coordinates. 7. Upon successful completion of flight test remove placard "GPS not approved for Navigation'' and Install Placard ''GPS not approved for IFR use." I certify that the above recorded test flight information is correct and that the GPS equipment, as installed, meets the above listed performance requirements. Koly Klollt Date - January 97 Pilot Signature

Additional Sheets Are Attached

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Date	27, 1996		Signature of Au		ual	C			
		7	. Approval for Return	o Service				-	
	to the authority give rator of the Federal Av	n persons specified I	below, the upit identi	fied in item 4 w		in the ma	anner prescri	bed by the	
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Weight and balance or operating	limitation changes sha	II be entered in the appropriate aircraft record. An alteration must be
compatible with all previous alter	rations to assure contin	nued conformity with the applicable airworthiness requirements.

	on of Work Accomplished provide the second
ţ	Leslie C. Hardison Cessna 414A s/n414A0317 N414MP
A.	The following equipment and major components were removed: 1. Miscellenious Nav equipment as outlined on Waukegan Avionics Service Order number 7389.
в.	The following equipment and major components were installed: 1. Bendix//King KLN-89B in avionics panel immediately below audio panel. KLN-89B TSO C129, Class A1. 2. Bendix/King KA-92 GPS antenna on top of fuselage 37 inches behind aircraft panel. GPS antenna is TSO'd C129. 3. Mid-Continent GPS Indicator model MD40-232L Indicator/annunciator installed on panel in full view of pilot. The MD40-232L in TSO'd C-60A.
C.	The installation was made with reference to: 1. STC SA00244WI-D in Mooney M20 series aircraft dated 6-23-95 2. Bendix/King Install Manual p/n 006-10522-0001, Rev 1, dated 6/95.
D.	All inspection records and other documents pertaining to this major alteration are on file at Waukegan Avionics under service order #7389.
E.	The alteration was performed in accordance with AC43.13-2A, chapter 1,2,3, and AC20-138.
F.	Aircraft Weight and Balance updated. The equipment list was amended in accordance with AC43.13-A1, Chapter 1,2,3, and Paragraphs 659 through 663.
G.	Electrical load does not exceed electrical generating capabilities.
н.	Conducted radio interference tests to ensure proper operation of all previously installed equipment. Found all systems to be functioning normally. Provided Manufacturers operations manual to accompany aircraft records.
Ι.	GPS system is intended for IFR Approach use when Flight Manual Supplement is approved. Placarded instrument panel ''GPS not approved for navigation'' pending VFR flight test. Upon successful completion of VFR flight test instrument panel placard will be changed to ''GPS not approved for IFR''. This system installed with Mid-Continent MD40-232L Indicator/Annunciator display as outlined in Manufacturers Installation Instructions. GPS is also wired into S_NAV LU-1B annunciator/relay system which is wired to existing IN-881A HSI indicator and existing autopilot.

X Additional Sheets Are Attached

US Deportmen of Transportate Federal Avior	m (Airfra	AJOR REPAIR me, Powerplant,		<ul> <li>A set of the term of the set</li> </ul>		E	Form Appro OMB No. 2 Fo Office Iden	2120-0020 Ir FAA Use O	nly
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	Make CESSNA				Model 414A				
1. Aircraft	Serial No. 414A0317			Nationality and Registration Mark USA N414MP					
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

		le C. Hardison na 414A s/n 414A0317 IP	
	A.	This FAA form 337 supersedes a p form 337 detailing a Bendix/King for VFR installation dated Decem	KLN-89B installation
	в.	The KLN-89B meets TSO C129, class The KA-92 antenna is TSO'd C-129 obtained approval under STC numb document is used as a reference.	). and Bendix/King has ber SA00244WI-D and this
	c.	This KLN-89B system is not approaches at this time.	ved for precision
	D,	Flight Manual Supplement dated A for this approval and following approved flight test, the panel APPROVED FOR IFR'' will be remo	a satisfactory FAA placard ''GPS NOT
	Ε.	A KLN-89B Pilot's Manual P/N 006 1995 or later revision must be i immediately available to the fli	n the aircraft and
	F.	For IFR flight the KLN-89B datab Any repairs or recalibration to that a FAA approved flight test returning to service for IFR fli	the KLN-89B require be performed before
Ji j	G.	This aircraft was test flown on using established flight proceed Avionics for IFR GPS Approach Op meet requirements of FAR 20-138.	eration and found to
1.		Signed Certificate # 579332	4/11/97 500 65 600 40 100 100 100 100 100 100 100 100 10
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or each	violation (	Section 901 of F Make	edera	al Aviation Act of 1	958).			Model						
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued <u>conformity with the applicable airworthiness requirements.</u>

#### 8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

REMOVED BENDIX BX 2000 AUTOPILOT AND ASSOCIATED COMPONENTS.

INSTALLED S-TEC SYSTEM 65, MODEL ST-397 WITH ALT PRESELECT.

SYSTEM INSTALLED PER STC SA7787SW-D AND BULLETIN NO. 497 REV E, DATED 7/28/99, AND BULLETIN NO. ST 360 REV L DATED 4/27/01 FOR THE ALT PRE SELECT.

APPROPRIATE CIRCUIT PROTECTION PROVIDED FOR ALL UNITS INSTALLED.

EQUIPMENT LIST UPDATED, WEIGHT AND BALANCE COMPUTED.

COMPASS GROUND CHECKED OKAY.

ELECTRICAL LOAD DOES NOT EXCEED 80% OF ALTERNATORS CAPABILITY.

ALL SYSTEMS GROUND AND FLIGHT CHECKED OKAY.

APPROPRIATE PILOT OPERATING GUIDES AND FLIGHT MANUAL SUPPLEMENTS INSTALLED FOR THIS AIRCRAFT.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOLLOW.

U.S. Departme of Transponduto Federal Aviadi Administration	nt (Airfra	AJOR REPAIR A ame, Powerplant, tries. See FAR 43.9, F	Prope	Iler, or A	and AC 43.9-	1 (or subseq	F Office Ide	2120-0020 For FAA Use On Intification	
instructions	and disposition of this for	m. This report is requi	red by la	aw (49 U.S.)	C. 1421). Fail	ure to report	can result i	n a civil pena	ity not to
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	Serial No. 414A 0307				N414N				
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			3. For	FAA Use O	nly				
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FAA Form 337 (12-88)

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be competible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

#### 8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Removed existing fuel flow indicating system

Installed Shadin Company, Inc.910532P Fuel flow indicating system in accordance with Shadin Company Report No. 4026 dated July 18, 1981, revised June 15,1983. Installation consisted of Digiflo Digital Fuel Flow Meter, transducer kit and installation kit. System installed in accordance with Shadin installation instructions # 4021 (Fuel Flow Tranducers) and Shadin Installation Instructions # 4026 (Fuel Flow Indicator) Installation performed per Supplemental Type Certificate SE444GL and SA577GL. No change in weight or balance

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Additional Sheets Are Attatched

US Department of Transportation		OR REPAIR AN Powerplant, Pr		f files an e a comi e e	ce)		orm Approv OMB No. 2 Fo ffice Identif	120-0020 •r FAA Use Or	ıly	
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1	Туре									
APPLIANCE	Manufacturer									
			0	Conformity State	mout			1	1	
A. Agency's Na	ame and Address		0.	B. Kind of Agency			C. Certif	icate No.		
GLENN C,				X U.S. Certificate	d Mechanic	214661	29			
	55 RANDOLPH ST. RT CHARLOTTE FL	22452		Foreign Certifi	sated Mechanic					
101		33302		Certificated Re	-					
have bee	that the repair and/or a en made in accordance	with the requirement	ls of Par	t 43 of the U.S. Fe	above and desideral Aviation Re	cribed on the re gulations and t	werse or al hat the info	llachments her Irmation	আন	
furnished Date	d herein is true and cor	Tect to the best of m	/ knowle	dge. Signature of Autho	rizad Individual		_			
	)4			Att						
05/18/200			7. App	roval for Return T	fo Service					
					was inspected in	the manner pr	rescribed b	y the		
05/1,8/200 Pursuant to 1	the authority given pers		the unit	identified in item 4 <sup>[x</sup> APPROVE	I* APPROVED     IREJECTED       X     inspection Authorization   Other (Specify)					
05/18/200 Pursuant to I Administrato			the unit is				1)			
05/18/200 Pursuant to I Administrato	r of the Federal Aviatio A Fit. Standards	n Administration and	the unit is		D REJE		1)			

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, atlach additional sheets. Identify with aircraft nationality and registration mark and date work completed.) REPAIRED DAMAGED RUDDER BY REPLACING BROKEN RIBS. CHANNELS, AND SKINS AS REQUIRED. PARTS USED AS FOLLOWS RIB PN.5133020-8, RIB PN.5133020-45, CHANNEL PN. 5133020-9, CHANNEL PN. 5133020-18, SKIN PN. 5133020-5, SKIN PN.5133020-49, AND SKIN PN. 5133020-50. REPAIRS MADE IN ACCORDANCE WITH CESSNA SERVICE MANUAL. AFFECTED AREAS REPAINTED AND RUDDER CHECKED FOR BALANCE PER CESSNA AIRFRAME REPAIR MANUAL BALANCE WITHIN PUBLISHED SPECIFICATIONS, RUDDER DETERMINED TO BE AIRWORTHY AND APPROVED FOR RETURN TO SERVICE.

1

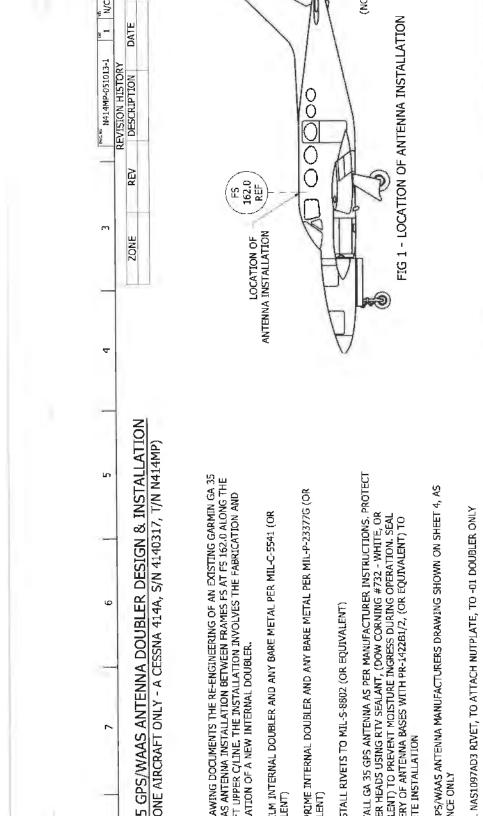
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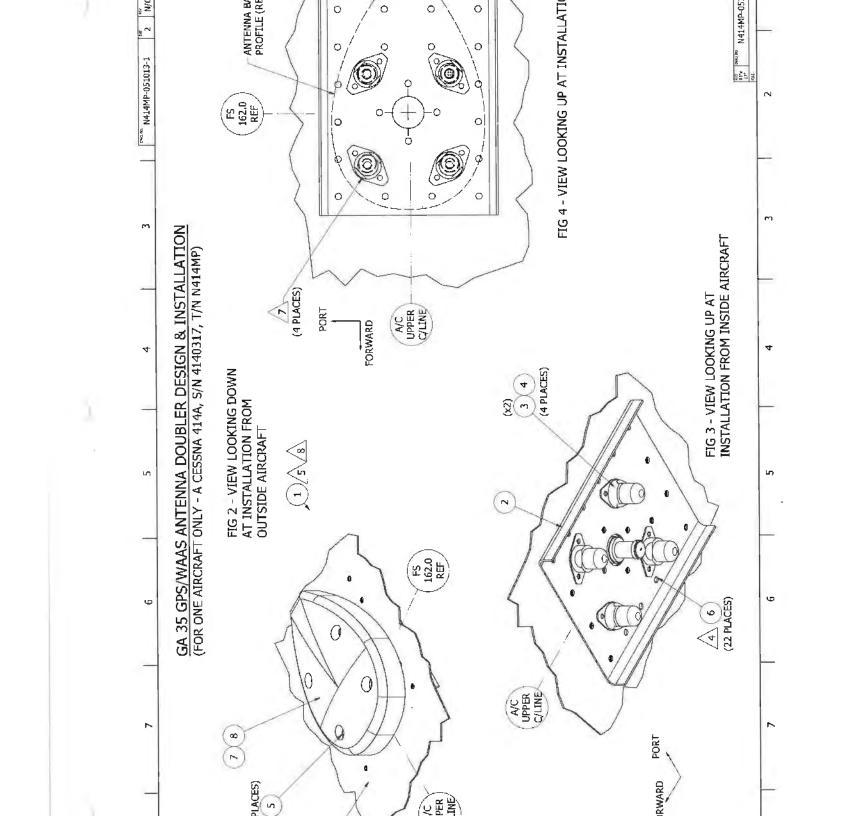
Additional Sheets Are Attached

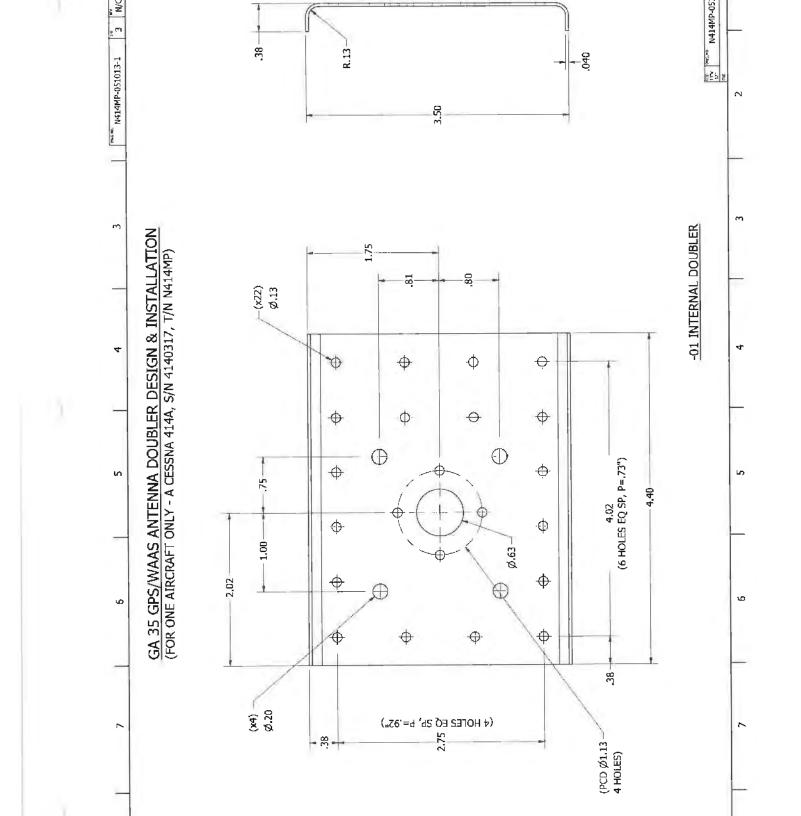
	U.S. DEPARTMENT OF TRANSPORTA FEDERAL AVIATION ADMINISTRATI MPLIANCE WITH AIRWOP	ON	DATE 05/10/13
	T	COMPONENT IDENTIFICA	
MAKE	MODEL NO.	TYPE (Aircraft, Engine, Propeller, etc.)	NAME OF APPLICANT
CESSNA	414A	AIRPLANE	SOUTHERN AVIONICS & COMMUNICATIONS
	LIST	OF DATA	
		TITLE	
N414MP-051013-1 REV N/C 05/10/13	demonstrates compliance subparagraph listed below constitute FAA approval of	ering design data only. only with the regulation as 'APPLICABLE REC all the engineering dat equirements for the end	It indicates the data listed above s specified by paragraph and WIREMENTS'. This form does not a necessary for substantiation of ire alteration/repair. Structural
	LY; S/N <u>414A0317,</u> T/N <u>N41</u>		THE FOLLOWING REGULATIONS
14 CFR Part 23.301(a 23.307(a), Amdt 23-0;	)(b), Amdt 23-48; 23.30 23.365(a)(b)(d), Amdt 3 3-23; 23.607(a)(b)(c), A	23-0; 23.601, Amdt	05(a)(b), Amdt 23-45; 23-0; 23.603(a)(b), Amdt 23- ), Amdt 23-0; 23.613(a)-(e),
14 CFR Part 183, data listed abo and found to comply with applica	ove and on attached sheets numbere ble requirements of the Airworthiness	d <u>N/A</u> have been exami	conditions and limitations of appointment under ned in accordance with established procedures
	mend approval of these data		
	e these data		
SIGNATURE(S) OF DESIGNATED E	NGINEERING REPRESENTATIVE(S)	DESIGNATION NUMBER(	5) CLASSIFICATION(S)
TREVOR J. STRONG		DERT-605818-NM	STRUCTURES

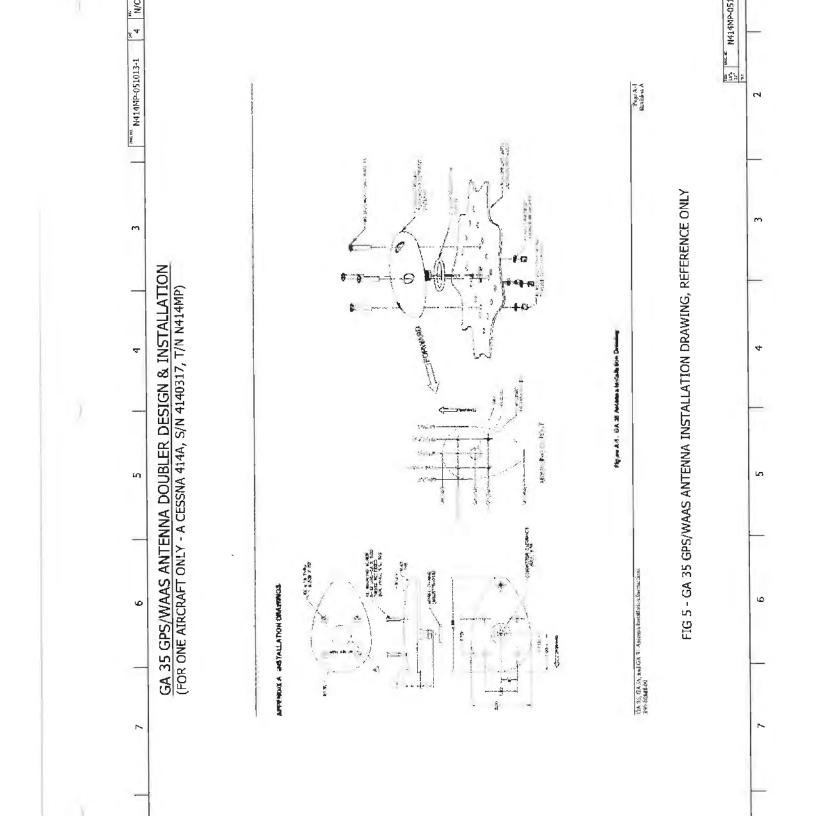
FAA Form 8110-3 (03/10) SUPERSEDES PREVIOUS EDITION



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	5/10/2013 17	DO NOT SCALE ON DRAWINKS T, STRDNG	CATTON	-1	XX. GENERAL NOTE	
M414MP-051	5/1C/2023 50	2 3 Trens	NEXT ASSY USED ON			DENTITAL AND MAY NOT BE DISCLOSED WITHOUT THE WRITTEN
INSTALLATION	-				-	eu in whule un jin fan i wijituut i ne sfellen kontannen. Ginffring, ea 91325, the information contarned in the
DOUBLER DESIG	5/10/2013	T, STRONG	2000 A		V TTEM	IATERIAL MUST NOT BE REPRODUCED OR COPIED DR So running og in øadt withour the suscitisto approval
TITLE: GA 35 GPS/WAA	5/10/2013 FITLE:		in and			NY DISCLOSURE OF THE CONTENT OF STORES IS GIVEN IN
WWW.Skangaero	alvo	DAMENGINE AND INCOMES AND APPROVALS:				ATTAINED PERCENT OF FOR AND ALL
M	DESCRIPTION	DES	PART NUMBER	-101	KEY:	
		INSTALLATION				
	WAAS ANTENNA	GARMIN GA 35 GPS/WAAS ANTENNA	-101	×		
AL20	(, (t=,040")	INTERNAL DOUBLER, (t=.040")	-01	•		
(OR	<b>IPLATE</b>	#10-32 CAPPED NUTPLATE	NAS1473A3	4		
et (or	UMINUM C/S RIVE	DIA 3/32" SOLID ALUMINUM C/S RIVET	NAS1097AD3-X	80		
(OR	K SCREW	#10-32 100° C/SUNK SCREW	MS24694S53	4		
T (OR	MINUM C/S RIVE	DIA 1/8" SOLID ALUMINUM C/S RIVET	X-4027007XD4-X	22		
(OR		O-RING	MS28775-116			
	ATENNA	GA 35 GPS/WAAS ANTENNA	013-00235-00			
		FUSELAGE SKIN	(REF ONLY)	•		







MAJOR REPAIR AND ALTERATION (Altramet, Powerplant, Propeller, or Appliance)         For FAA Lise On Office Identification           Internet Administration         (Altrame, Powerplant, Propeller, or Appliance)         For FAA Lise On Office Identification           INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43. Appendix 8, and AC 43.9-1 (or natasequent metiden in daried) for each such visiting (Saction 901 Federal Avaiation Act of 1953).         Model 41.4.0           I. Allerent CESSINA         Make CESSINA         Nate           I. Allerent Allerent CESSINA         Nate (As shown on registration certificate)         Address (As shown on registration certificate)           I. Allerent Aller	2								Form Appro OMB No. 2		
Autom         Other Manimation           INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43. Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instruction disclosmon of this form. This report is required by line (49.10.2.142). Failure bench care and an independent of the form. This report is an equation of the form. This report is an equation back of 1953).         Model         Model         Model         All AR           1. Aircreft         Make CSSISNA         Name (As shown on registration certificate)         Address (As shown on registration certificate)         Address (As shown on registration certificate)         Address (As shown on registration certificate)           2. Owner         L AND D LBASING         26003 W RPLLS TESE IN BARRINGTON, IL. 60010-2633         Repair           ALRERAME         (As described in filtern 1 above)							nce)	_			niy
INSTRUCTIONS: Print retype all entries. See FAR.49. FAA 49. AppAnd 49. Appendix 51, and AC.43.E-1 (or subsequent molecule therein) for instructure and disposition of this low. This imports in signation by Jack (40.U.S.C. 1421). Failure to report can result in dvit penalty not to ecceed \$1,0 for each such violation (dvit penalty not to ecceed \$1,0 f	Federal Aviation	,		i onorphing	. Topon						
1. Alicentit     CESSINA     414A       Serial No.     Nationality and Registration Mark       14.1420     Nationality and Registration Mark       1. Alicentit     Nationality and Registration Mark       2. Owner     LAND D LEASING       2. Owner     LAND D LEASING       3. For FAA Use Only         3. For FAA Use Only         4. Unit Identification     6. Type       Unit     Make       4. Unit Identification     5. Type         Unit     Make         4. Unit Identification     5. Type         Unit     Make         4. Unit Identification     5. Type         POWERPLANT     Account Item 1 above)         PROPELLER         POWERPLANT         PROPELLER         Type         A. Agency's Name and Address       B. Conformity Statement         A. Agency's Name and Address       B. Conformity Statement         A. Agency's Name and Address         B. Conformity Statement         A. Agency's Name and Address         B. Conformity Statement         A. Agency's Name and Address         B. Conformity Statement         A. Agency's Name and Address <th>INSTRUCTION</th> <th>on of this form. Th</th> <th>his re</th> <th>port is required by</th> <th>y law (49</th> <th>U.S.C. 1421). F</th> <th>nd AC 43.9-1 ailure to report</th> <th>(or subsequent in Lican result in civit</th> <th>evision then penalty not</th> <th>eof) for instruc to exceed \$1,0</th> <th>tio O(</th>	INSTRUCTION	on of this form. Th	his re	port is required by	y law (49	U.S.C. 1421). F	nd AC 43.9-1 ailure to report	(or subsequent in Lican result in civit	evision then penalty not	eof) for instruc to exceed \$1,0	tio O(
Serial No.       Nationality and Kegutration Mark         14A0.317       Nationality and Kegutration Mark         Name (As shown or registration certificate)       Address (As shown or megistration certificate)         2. Owner       L. AND. D. LEASTING         3. For FAA Use Only       Serial No.         4. Unit Identification       6. Type         Unit       Marke         4. Unit Identification       6. Type         Unit       Marke         4. Unit Identification       6. Type         POWERPLANT       As described in flem 1 above)         POWERPLANT       Serial No.         PROPELLER       Manufacturer         PROPELLER       Manufacturer         A. Agency's Name and Address       B. Kind of Agency         C. Certificate No.       VSTR077X; RADIO         S21 DRATEY DR./ PROF FIELD       Scretificate Mechanic       VSTR073X; RADIO         S21 DRATEY DR./ PROF FIELD       Scretificate Mechanic       VSTR073X; RADIO         S21 DRATEY DR./ PROF FIELD       Scretificate Mechanic       VSTR073X; RADIO         S21 DRATEY DR./ PROF FIELD       Scretificate Mechanic       VSTR073X; RADIO         S21 DRATEY DR./ PROF FIELD       Scretificate Mechanic       VSTR073X; RADIO         S21 DRATEY DR./ PROF FIELD       S											_
Name (As shown on registration certificate)         Address (As shown on registration certificate)           2. Owner         L AND D LEASING         26803 W APPLE TEEL IN BARRINGTON, IL. 60010-2437           2. For FAA Use Only         3. For FAA Use Only           2. Minimum Control (Control (Contro) (Control (Control (Control (Control (Control (Co	1. Aircraft							-	Mark		
2. Owner       L AND D LEASING       26803 W APPLE TREE IN DARRINGTON, IL. 60010-2437         3. For FAA Use Only         3. For FAA Use Only         Unit       Make         Model       Serial No.         Repair         Unit       Make         Model       Serial No.         Repair         ARFRAME         (As described in item 1 abovo)         POWERPLANT         PROPELLER         Type         Appliance         Type         Agency is and Address         C. Conformity Statement         A gency's Name and Address         D. Identity BL PACE FIELD         ST. MYERS, FL. 33907         D. Identity To Ly FIEL         D. Identity To Ly FIEL         Notes: Statement         III J DE AFE LY         Statement         Address FIELD         Statement         Address FIELD         Statement         Address FIELD <td></td> <td></td> <td>wn on</td> <td>registration certifi</td> <td>cate)</td> <td></td> <td></td> <td></td> <td>tration certi</td> <td>ificate)</td> <td>_</td>			wn on	registration certifi	cate)				tration certi	ificate)	_
3. For FAA Use Only       3. For FAA Use Only       Unit     Make       4. Unit Identification     6. Type       Unit     Make       ARRFRAME     (As described in Item 1 above)       POWERPLANT     POWERPLANT       PROPELLER     Type       APPLIANCE     Manufacturer       Manufacturer     B. Kind of Agency       C. Certificate No.     VSTR97X: RADIO       TOMITINGON AVIONICS OF PLORIDA, TNC.     S. Certificated Mechanic       S21 DARLEY RA. / FAA Designed to the best of my knowledge.     Using Certificate Repair Bation       D. Loartily that the repair and/or alteration made to the unit(tg) (dertified in item 4 above and described on the reverse or aftechments her have been made in size and correct to the best of my knowledge.       Date     Signature of Authorization       Parsuant to the subnotity given persons specified below. Ite unit (territified in them 4 axis nopocied in the momer prescribed by the Administration and is       Parsuant to the federal Aviation Administration and is       Examption of Rejection <tr< td=""><td>2. Owner</td><td>1 1</td><td></td><td>-</td><td></td><td></td><td>26803</td><td>W APPLE TRE</td><td>E LN</td><td>,</td><td></td></tr<>	2. Owner	1 1		-			26803	W APPLE TRE	E LN	,	
4. Unit Identification       5. Type         Unit       Make       Model       Serial No.       Repair         AIRFRAME       (As described in Item 1 above)							BARRI	NGTON, IL.	60010-24	137	
Unit         Make         Model         Serial No.         Repair           AIRFRAME         (As described in item 1 above)         Repair         Repair           AIRFRAME         (As described in item 1 above)         Repair           POWERPLANT         Repair         Repair           PROPELLER         Type         Repair         Repair           APPLIANCE         Manufacturer         B. Kind of Agency         C. Contificate No.           TOMLINSON AVIONICS OF FLORIDA, INC.         U.S. Certificated Mechanic         VSTR097X1 RADIO           S21 DANLEY DR. / PACE FIELD         Foreign Certificated Mechanic         TI11 ; L2D A/F LT           PT. MYERS, FL. 33907         Z. Certificated Mechanic         III ; L2D A/F LT           D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or aftechments her have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is line and correct to the best of ny knowkedge.           Date         Signature of Authorized Individual           4/05/07         C. Approval for Return To Service           Pursuant to the authofity given persons specified below, the unit (aprified in item 4 was inspected in the manner prescribed by the Administration and is         Signature of Authorized in Aviation Administration and is           BY		<u> </u>				3. For FAA Use	Only				-
AIRFRAME       (As described in item 1 above)         POWERPLANT       (As described in item 1 above)         PROPELLER       Type         APPLIANCE       Type         Manufacturer       6. Conformity Statement         A. Agency's Name and Address       8. Kind of Agency         TOMLINSON AVIONICS OF FLORIDA, INC.       U.S. Certificate Mechanic         Your Statement       Vortificate Statement         A. Agency's Name and Address       8. Kind of Agency         TOMLINSON AVIONICS OF FLORIDA, INC.       U.S. Certificated Mechanic         Your Statement       Vortificate Statement         X. Certificate Repair Statement       III J. UTD A/F LT         FT. MYERS, FL.       33907         X. Certificate Repair Statement       U.D. Statement         D. Loardify that the repair and/or attention made to the unit(s) identified in item 4 above and described on the reverse or attachments her have been made in accordance with the requirements of Pat 43 of the U.S. Federal Avision Regulations and that the information furnished herein is line and correct to the best of my knowkedge.         Date       Signature of Authorized individual         4/05/07       Your To Service         Pursuant to the authority given persons specified below, the unit Identified in item 4 was inspected in the manner prescribed by the Administration and is       Tx Approval for Retrum To Service         Pur					1	4. Unit Identifica	ition			5. Туре	<b>-</b> T
POWERPLANT       Type         PROPELLER       Type         APPLIANCE       Type         Manufacturer       6. Conformity Statement         A. Agency's Name and Address       8. Kind of Agency         C. Certificate No.       0. C. Certificate No.         TOMLINSON AVIONICS OF FLORIDA, INC.       U.S. Certificated Mechanic         S21 DALEY DR. / PACE FIELD       Foreign Certificated Mechanic         TT. MYERS, FL. 33907       X. Certificated Repair Station         J. I certify that the repair and/or attention made to the unit(s) identified in item 4 above and described on the reverse or attachments her have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is Ince and correct to the best of my knowkedge.         Date       Signature of Authorized individual         4/05/07       Y. Approval for Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspecided in the manner prescribed by the Administration and is       Signature of Authorization         BY       FAA Fit. Standards       Manufacturer       Inspection Authorization         BY       FAA Designee       X. Repair Station       Certificate represent the contract when the contract when the set of authorization         Date       Signature of Authorized by Transport       Date of Approval or Rejection <t< th=""><th>Unit</th><th></th><th>Mal</th><th>(e</th><th></th><th>Model</th><th></th><th>Serial M</th><th>lo.</th><th>Repair</th><th></th></t<>	Unit		Mal	(e		Model		Serial M	lo.	Repair	
PROPELLER       Type         APPLIANCE       Type         Manufacturer       B. Kind of Agency         C. Conformity Statement       C. Certificate No.         A. Agency's Name and Address       B. Kind of Agency         TOMLINSON AVIONICS OF FLORIDA, INC.       U.S. Certificated Mechanic         S21 DANLEY DR. / PAGE FIELD       Foreign Certificated Mechanic         FT. MYERS, FL. 33907       X. Certificated Mechanic         D. I certify thal the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or aftechments her have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.         Date       Signature of Authorized Individual         4/05/07       Y. Approval for Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       X. Approval for Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       X. Approved to Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is	AIRFRAME	_			(As des	cribed in Item 1 al	iove) ——				
APPLIANCE       Type         APPLIANCE       Manufacturer         Agency's Name and Address       B. Kind of Agency         TOMLINSON AVIONICS OF FLORIDA, INC.       U.S. Certificated Mechanic         S21 DANLEY DR. / PAGE FIELD       Foreign Certificated Mechanic         FT. MYERS, FL. 33907       X. Certificate Repair Station         D. I certify that the repair and/or attention made to the unit(s) identified in item 4 above and described on the reverse or attachments her have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.         Date       Signature of Authorized Individual         4/05/07       T. Approval for Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is         BY       FAA Fit. Standards inspection         Inspection       Manufacturer         Inspection       Cither (Specify)         BY       FAA Designee       X         Person Approved by Transport       Cither (Specify)         Date of Approval or Rejection       Certificate er Determines for Determines f	POWERPLAN	F									
APPLIANCE       Manufacturer         A. Agency's Name and Address       6. Conformity Statement         A. Agency's Name and Address       8. Kind of Agency       C. Certificate No.         TOMILINSON AVIONICS OF FLORIDA, INC.       U.S. Certificated Mechanic       VGTR097X; RADIO         S21 DANLEY DR. / PAGE FIELD       Foreign Certificated Mechanic       UIT; LTD A/F LT         FT. MYERS, FL. 33907       X. Certificated Repair Station       LTD SPEC SERV.         D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or aftechments her have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is lue and correct to the best of my knowledge.         Date       Signature of Authorized Individual         4/05/07       T. Approval for Retrum To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       Is APPROVED       REJECTED         BY       FAA Fit. Standards       Manufacturer       Inspection Authorization       Other (Specify)         BY       FAA Designee       X       Repair Station       Person Approved by Transport Canada Ainvorthiness Group       Other (Specify)         Date of Approval or Rejection       Certificate or Devinemite he <t< td=""><td>PROPELLER</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Ì</td></t<>	PROPELLER										Ì
Manufacturer       6. Conformity Statement         A. Agency's Name and Address       B. Kind of Agency       C. Certificate No.         TOMLINSON AVIONICS OF FLORIDA, INC.       U.S. Certificated Mechanic       VGTR097X; RADIO         S21 DANLEY DR. / PAGE FIELD       Foreign Certificated Mechanic       LTD SPEC SERV.         FT. MYERS, FL. 33907       X. Certificated Repair Station       LTD SPEC SERV.         D. I certify that the repair and/or attention made to the unit(s) identified in item 4 above and described on the reverse or affactments here have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.         Date       Signature of Authorized Individual         4/05/07       7. Approval for Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       Signature of Authorization         BY       FAA Fit. Standards Inspector       Manufacturer       Inspector         BY       FAA Designee       X       Repair Station       Person Approved by Transport         Date of Approval or Rejection       Certificate or       Signature of Authorized Individual       Other (Specify)		Туре					ŀ				t
A. Agency's Name and Address       B. Kind of Agency       C. Certificate No.         TONLINSON AVIONICS OF FLORIDA, INC.       U.S. Certificated Mechanic       V6TR097X; RADIO         521 DANLEY DR. / PAGE FIELD       Foreign Certificated Mechanic       UII; LTD A/F LT.         FT. MYERS, FL. 33907       X. Certificated Repair Station       LTD SPEC SERV.         D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments her have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is low and correct to the best of my knowledge.         Date       Signature of Authorized Individual         4/05/07       T. Approval for Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administration and is       Ix APPROVED       REJECTED         BY       FAA Fit. Standards       Manufacturer       Inspection Authorization       Other (Specify)         Bate of Approval or Rejection       Certificate or Direction and is       Person Approved by Transport Canada Ainworthiness Group       Other (Specify)         BY       FAA Fit. Standards       Manufacturer       Inspection Approved by Transport Canada Ainworthiness Group       Other (Specify)		, .									
A. Agency's Name and Address       B. Kind of Agency       C. Certificate No.         TONLINSON AVIONICS OF FLORIDA, INC.       U.S. Certificated Mechanic       V6TR097X; RADIO         521 DANLEY DR. / PAGE FIELD       Foreign Certificated Mechanic       UII; LTD A/F LT.         FT. MYERS, FL. 33907       X. Certificated Repair Station       LTD SPEC SERV.         D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments her have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is low and correct to the best of my knowledge.         Date       Signature of Authorized Individual         4/05/07       T. Approval for Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administration and is       Ix APPROVED       REJECTED         BY       FAA Fit. Standards       Manufacturer       Inspection Authorization       Other (Specify)         Bate of Approval or Rejection       Certificate or Direction and is       Person Approved by Transport Canada Ainworthiness Group       Other (Specify)         BY       FAA Fit. Standards       Manufacturer       Inspection Approved by Transport Canada Ainworthiness Group       Other (Specify)	APPLIANCE										
S21 DANLEY DR. / PAGE FIELD       Foreign Certificated Mechanic       III; LTD A/F LT.         FT. MYERS, FL. 33907       X. Certificated Repair Station       LTD SPEC SERV.         D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or aftachments her have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is line and correct to the best of my knowledge.         Date       Signature of Authorized Individual         4/05/07       7. Approval for Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       Signature of Authorization         BY       FAA Fit. Standards       Manufacturer       Inspection Authorization         BY       FAA Designee       X       Repair Station         Date of Approval or Rejection       Certificate or point in the signature of Authorization       Other (Specify)	APPLIANCE				6	i. Conformity Sta	tement				
ST. MYERS, FL. 33907       Itel best of metal and the intervence of the control of the intervence		Manufacturer			6	-			C. Certi	ficate No.	
D.       I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments her have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is live and correct to the best of my knowledge.         Date       Signature of Authorized Individual         4/05/07       For Refum To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       Image: Signature of Authorization         BY       FAA Fit. Standards       Manufacturer       Inspection Authorization         BY       FAA Designee       X       Repair Station         Date of Approval or Rejection       Certificate or       Signature of Authorization Individual	A. Agency's N TOMLINSON	Manufacturer ame and Address	F FL		6	B. Kind of Agend	Y ated Mechanic		V6TR0	97X; RADIO	
have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.         Date       Signature of Authorized Individual         4/05/07       7. Approval for Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       Image: Correct Service         BY       FAA Fit. Standards Inspector       Manufacturer       Inspection Authorization         BY       FAA Designee       X       Repair Station       Person Approved by Transport Canada Ainworthiness Group         Date of Approval or Rejection       Certificate or Designed to the Design	A. Agency's N TOMLINSON 521 DANLE	Manufacturer ame and Address AVIONICS OF Y DR. / PAGE	F FL FIE		6	B. Kind of Agence U.S. Certifica Foreign Cert	Y ated Mechanic ificated Mechar		V6TROS	97X; RADIO LTD A/F LT	
4/05/07       7. Approval for Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       Isc APPROVED         BY       FAA Fit. Standards Inspector       Manufacturer       Inspection Authorization         BY       FAA Designee       X       Repair Station       Person Approved by Transport Canada Ainworthiness Group         Date of Approval or Rejection       Certificate or Designe Inc.       Signature of Authorized Individual	A. Agency's N TOMLINSON 521 DANLE	Manufacturer ame and Address AVIONICS OF Y DR. / PAGE	F FL FIE		6	B. Kind of Agence U.S. Certifica Foreign Cert X. Certificated	y ated Mechanic ificated Mechar Repair Station	nic	V6TROS	97X; RADIO LTD A/F LT	
7. Approval for Return To Service         Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       Item 4 was inspected in the manner prescribed by the REJECTED         BY       FAA Fit. Standards Inspector       Manufacturer       Inspection Authorization       Other (Specify)         BY       FAA Designee       X       Repair Station       Person Approved by Transport Canada Ainworthiness Group       Other (Specify)         Date of Approval or Rejection       Certificate or Designe Inspector       Signature of Authorized Individual       Designed Inspector	A. Agency's N TOMLINSON 521 DANLE FT. MYERS D. I certify have be	Manufacturer ame and Address AVIONICS OF CAVIONICS OF CAVIONICS CAVIONICS OF CAVIONICS CAVIONI	F FL FIE 7 Voral	LD teration made to t with the requirement	he unit(s)	B. Kind of Agence     U.S. Certific:     Foreign Cert     X. Certificated     Manufacture     identified in item     nt 43 of the U.S. F	y ited Mechanic ificated Mechar Repair Station_ f 4 above and	described on the l	V6TR09 III; I LTD S)	97X; RADIO LTD A/F LT PEC SERV. Thachments her	D
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       Item 4 was inspected in the manner prescribed by the I.x. APPROVED         BY       FAA Fit. Standards       Manufacturer       Inspection Authorization         BY       FAA Designee       X       Repair Station         Date of Approval or Rejection       Certificate or       Signature of Authorized Individual	A. Agency's N TOMLINSON 521 DANLE FT. MYERS D. I certify have bein furnishe	Manufacturer ame and Address AVIONICS OF CAVIONICS OF CAVIONICS CAVIONICS OF CAVIONICS CAVIONI	F FL FIE 7 Voral	LD teration made to t with the requirement	he unit(s)	B. Kind of Agence U.S. Certifica Foreign Cert X. Certificated Manufacture identified in item rt 43 of the U.S. F edge,	y ated Mechanic filcated Mechar Repair Station r 4 above and ederal Aviation	described on the in Regulations and	V6TR09 III; I LTD S)	97X; RADIO LTD A/F LT PEC SERV. Thachments her	D
Administrator of the Federal Aviation Administration and is       Ix: APPROVED       REJECTED         BY       FAA Fit. Standards Inspector       Manufacturer       Inspection Authorization       Other (Specify)         BY       FAA Designee       X       Repair Station       Person Approved by Transport Canada Ainworthiness Group       Other (Specify)         Date of Approval or Rejection       Certificate or Designation No       Signature of Authorized Individual       Designature	A. Agency's N TOMLINSON 521 DANLE FT. MYERS D. I certify have bein furnishe	Manufacturer ame and Address AVIONICS OF CAVIONICS OF CAVIONICS CAVIONICS OF CAVIONICS CAVIONI	F FL FIE 7 Voral	LD teration made to t with the requirement	he unit(s)	B. Kind of Agence U.S. Certifica Foreign Cert X. Certificated Manufacture identified in item rt 43 of the U.S. F edge,	y Ated Mechanic fficated Mechan Repair Station 4 above and ederal Aviation horized Individ	described on the i n Regulations and ual	V6TR09 III; I LTD S)	97X; RADIO LTD A/F LT PEC SERV. Thachments her	D
BY     Inspector     Manufacturer     Inspection Authorization       BY     FAA Designee     X     Repair Station     Person Approved by Transport Canada Ainworthiness Group       Date of Approval or Rejection     Certificate or Designed by Designed by Desi	A. Agency's N TOMLINSON 521 DANLE FT. MYERS D. I certify have bein furnishe	Manufacturer ame and Address AVIONICS OF CAVIONICS OF CAVIONICS CAVIONICS OF CAVIONICS CAVIONI	F FL FIE 7 Voral	LD teration made to t with the requirement	he unit(s) nts of Pa ny knowk	B. Kind of Agence     U.S. Certific:     Foreign Cert     X. Certificated     Manufacture     identified in item     it 43 of the U.S. F edge,     Signature of Auture	y Ated Mechanic filicated Mechan Repair Station 4 above and ederal Aviation horized Individ	described on the i n Regulations and ual	V6TR09 III; I LTD S)	97X; RADIO LTD A/F LT PEC SERV. Thachments her	D
FAA Designee     X     Repair Station     Person Approved by Transport Canada Ainworthiness Group       Date of Approval or Rejection     Certificate or Designation No     Signature of Authorized Individual	A. Agency's No TOML INSON 521 DANLE FT. MYERS D. I certify have been furnishe Date 4/05/07	Manufacturer ame and Address AVIONICS OF SY DR. / PAGE S, FL. 3390 that the repair and an made in accord d herein is love an the authority given	F FL FIE 7 Woral lance d con	LD teration made to t with the requireme rect to the best of i	he unit(s) ents of Pa my knowk 7. Apj w, the uni	B. Kind of Agence     U.S. Certific:     Foreign Cert     X. Certificated     Manufacture     identified in item     rt 43 of the U.S. F edge.     Signature of Aut     proval for Return t identified in item	y Ated Mechanic filicated Mechan Repair Station 4 above and ederal Aviation norized Individ To Service 4 was inspect	described on the n Regulations and ual ed in the manner EJECTED	V6TR0 III; 1 LTD S1 everse or a that the info	97X; RADIO LTD A/F LT PEC SERV. ftachments her ormation	D
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4/05/07 V6TR097X	A. Agency's Ni TOMLINSON 521 DANLE FT. MYERS D. I certify have bein furnishe Date 4/05/07 Pursuant to Administrato BY	Manufacturer ame and Address TAVIONICS OF TOR. / PAGE TOR. / PAGE	F FL FIE 7 Wor al lance d con	LD teration made to t with the requireme rect to the best of r ons specified befor Administration ar Manufacturer	he unit(s) ents of Pa my knowk 7. Apj w, the uni	B. Kind of Agence     U.S. Certification     Foreign Cert     Foreign Cert     Certificated     Manufacture     identified in item     it 43 of the U.S. Fedge,     Signature of Aut     proval for Return t identified in item     L <sub>X</sub> APPROV     Inspection Author     Person Approve	Atted Mechanic ificated Mechanic ificated Mechanic ificated Mechanic Repair Station 4 above and ederal Aviation if of Service 4 was inspect ED R rization by Transport	described on the in Regulations and ual ed in the manner p EJECTED Other <i>(Speci</i>	V6TR0 III; 1 LTD S1 everse or a that the info	97X; RADIO LTD A/F LT PEC SERV. ftachments her ormation	D

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

#### 8. Description of Work Accomplished

(if more space is required, attach additional sheets. identify with aircraft nationality and registration mark and date work completed.) REMOVED PREVIOUSLY INSTALLED GNS 430 AND GA 56 ANTENNA.

INSTALLED GARMIN GNS 430W AND GA 35 ANTENNA.

INSTALLED PER STC SA01933LA AND GARMIN FAA APPROVED INSTALLATION MANUAL P/N 190-00356-02 REVB.

APPROPRIATE CIRCUIT PROTECTION PROVIDED FOR ALL UNITS INSTALLED AND PLACARDED COM1 AND GPS.

WEIGHT AND BALANCE AND EQUIPMENT LIST UPDATED.

COMPASS GROUND CHECKED OKAY.

ELECTRICAL LOAD DOES NOT EXCEED 80% OF ALTERNATORS CAPABILITY.

ALL SYSTEMS GROUND AND FLIGHT CHECKED OKAY.

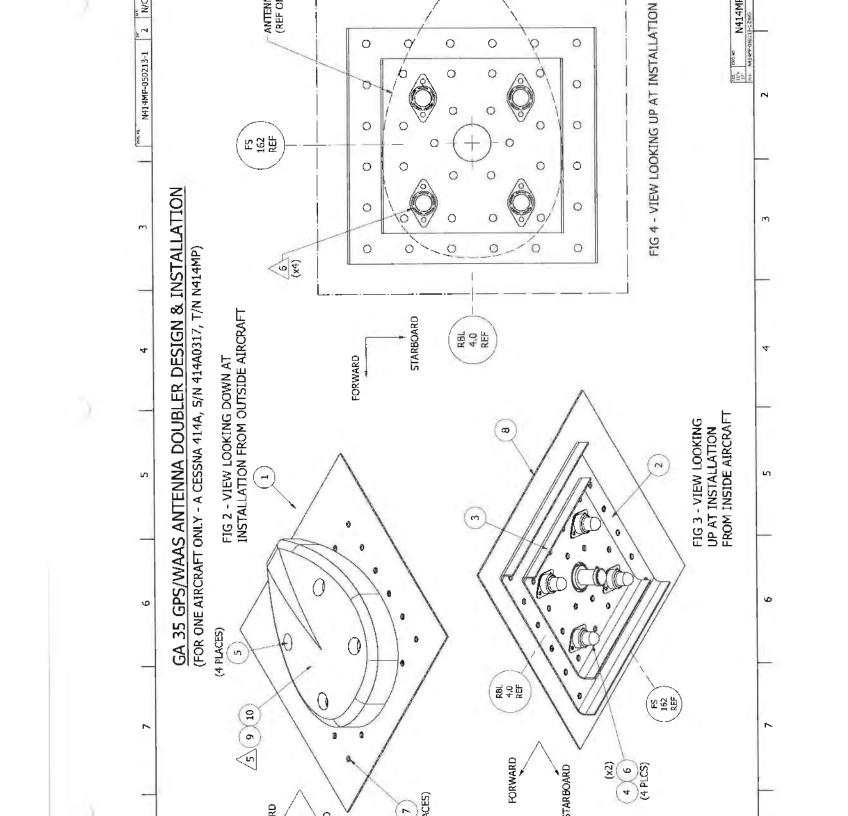
APPROPRIATE PILOT OPERATING GUIDES AND FLIGHT MANUAL SUPPLEMENT GARMIN P/N 190-00356-63 REV B DATED 12/21/2006.WAS INSTALLED FOR THIS AIRCRAFT.

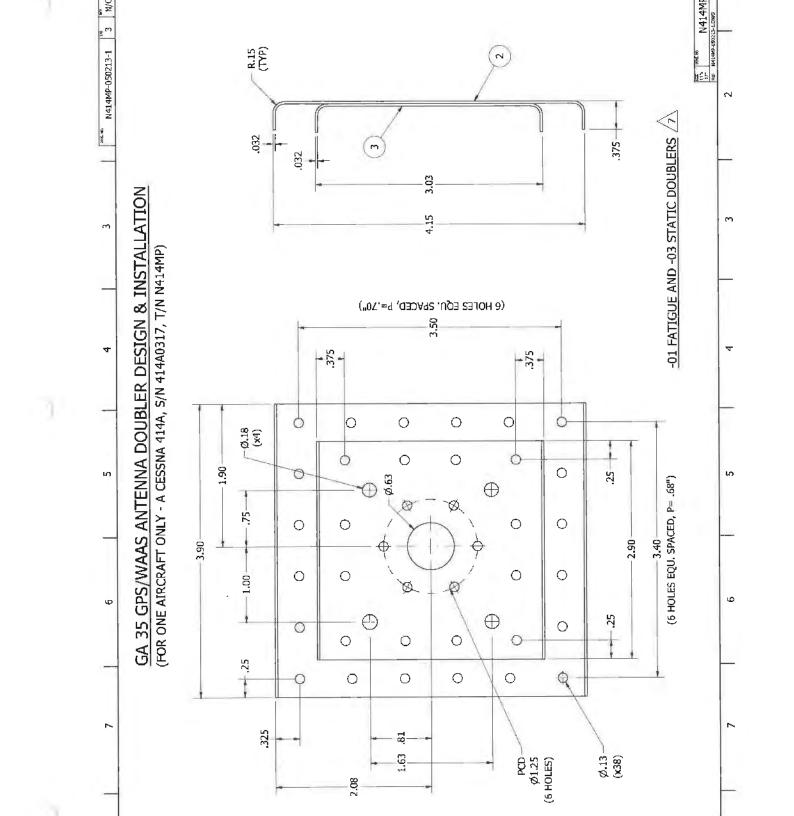
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOLLOW GARMIN P/N 190-00356-65 REV A. DATED 11-03/06.

STATEMENT OF CO	U.S. DEPARTMENT OF TRANSPORTA FEDERAL AVIATION ADMINISTRAT DMPLIANCE WITH AIRWOI	ION	DATE 05/02/13
	AIRCRAFT OR AIRCRAFT	COMPONENT IDENTIFICA	TION
MAKE	MODEL NO.	TYPE (Aircraft, Engine,	NAME OF APPLICANT
OF CONA		Propeller, etc.)	
CESSNA	414A	AIRPLANE	SOUTHERN AVIONICS &
		OF DATA	COMMUNICATIONS
IDENTIFICATION			
N414MP-050213-1 REV N/C 05/02/13	"GA 35 GPS/WAAS ANTE	NNA DOUBLER DESIG	GN & INSTALLATION"
	demonstrates compliance subparagraph listed below constitute FAA approval o	only with the regulation as 'APPLICABLE REC f all the engineering dat equirements for the enti-	It indicates the data listed above is specified by paragraph and QUIREMENTS'. This form does not a necessary for substantiation of tire alteration/repair. Structural ncluded.
	R ALTERATION TO SHOW LY; S/N <u>414A0317</u> , T/N <u>N4</u> 1		THE FOLLOWING REGULATIONS
APPLICABLE REQUIREMENTS (List 14 CFR Part 23.301(a 23.307(a), Amdt 23-0;	specific sections) i)(b), Amdt 23-48; 23.30 23.365(a)(b)(d), Amdt 3-23; 23.607(a)(b)(c), A	 3, Amdt 23-0; 23.3( 23-0; 23.601, Amdt	05(a)(b), Amdt 23-45; 23-0; 23.603(a)(b), Amdt 23- ), Amdt 23-0; 23.613(a)-(e),
14 CFR Part 183, data listed ab	ority vested by direction of the Admini ove and on attached sheets numbere ble requirements of the Airworthiness	d <u>N/A</u> have been exami	conditions and limitations of appointment under ned in accordance with established procedures
	mend approval of these data		·····
SIGNATURE(S) OF DESIGNATED E	NGINEERING REPRESENTATIVE(S)	DESIGNATION NUMBER(	S) CLASSIFICATION(S)
		DERT-605818-NM	STRUCTURES
FAA Form 8110-3 (03/10) SUPER			ELECTRONIC FORMAT (7-00)

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US Department of Transportation Federal Aviation Administration	-	ne,	Powerplant, Proj	oeller,	or Applianc	æ)		Office Identi		lly
and disposit	on of this form. Th	lis ne	ntries. See FAR 43.9, F. port is required by law Federal Aviation Act of	(49 U.S						
	Make CESSNA					Model 414A				
1. Aircraft	Serial No. 414A0317					Nationality an N414MP	nd Registration	Mark		
		m or	registration certificate)				shown on reg	istration certi	ficate)	-
2. Owner	L AND D LI	CASI	NG				APPLE TR TON, IL.		37	
	1	-		3. F	or FAA Use On	ily	-			
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υηπ		Ma	ke					NO	Repair	Altera
AIRFRAME	-		(As	describe	d in Item 1 abov	re)		-		x
POWERPLAN	г									
PROPELLER										
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APPLIANCE	Manufacturer									
	1			6. Co	nformity Staten	nent			I	
	ame and Address			B. I	Kind of Agency				ficate No.	
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have been	en møde in accordi	ance	Iteration made to the un with the requirements o rect to the best of my kn	f Part 43	of the U.S. Fede					eto
Date 4/05/07					nature of Authori	ized Individua	X	-		
		_	7.	Approv	or Return To	o Service		_		
			ons specified below, the Administration and is	unit ider	tified in item 4 w $I_X$ APPROVED	vas inspected	in the manner ECTED	prescribed b	y the	
		_	T T	Insi	pection Authoriza	ation	Other (Spec	cify)		
Administrato FA/ Insj	A Fit. Standards bector		Manufacturer		Spection Authorization Other (Specify)					
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FAA Form 337 (12-88)

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

#### 8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

REMOVED PREVIOUSLY INSTALLED GNS 530 AND GA 56 ANTENNA.

INSTALLED GARMIN GNS 530W AND GA 35 ANTENNA.

INSTALLED PER STC SA01933LA AND GARMIN FAA APPROVED INSTALLATION MANUAL P/N 190-00357-02 REVE.

APPROPRIATE CIRCUIT PROTECTION PROVIDED FOR ALL UNITS INSTALLED AND PLACARDED COM1 AND GPS.

WEIGHT AND BALANCE AND EQUIPMENT LIST UPDATED.

COMPASS GROUND CHECKED OKAY.

ELECTRICAL LOAD DOES NOT EXCEED 80% OF ALTERNATORS CAPABILITY.

ALL SYSTEMS GROUND AND FLIGHT CHECKED OKAY.

APPROPRIATE PILOT OPERATING GUIDES AND FLIGHT MANUAL SUPPLEMENT GARMIN P/N 190-00357-63 REV B DATED 12/21/2006.WAS INSTALLED FOR THIS AIRCRAFT.

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOLLOW GARMIN P/N 190-00357-65 REV A. DATED 11-03/06.

Additional Sheets Are Attached

0		MAJO	R REPAIR AND	ALTERATION		Form Approv OMB No. 21 11/30/2007	20-0020	Electronic Tracking Nur For FAA Use Only
US Department of Transportation Federal Avlation	n -	irframe, F	Powerplant, Pro	opeller, or Appl	iance)			
instructions	IONS: Print or	of this form	ies. See Title 14 C . This report is requ	FR §43.9, Part 43 ired by law (49 U.S	Appendix B, and S.C. §44701). Fail	AC 43.9-1 ( ure to report of	or subs can res	sequent revision th ult in a civil penalty
	Nationality an		n Mark		Serial No. 414A0317			
1. Aircraft	Make				Model 414A		5	Series
		wn on regis	tration certificate)		Address (As sh			
2. Owner	LANDDLE	ASING			Address 26803 City BARRI		REEL	N
				3. For FAA Use		2437	Count	ny
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Repair	Alteration	Unit	M N	take		Model		Serial
		RFRAME			(As described		ve)	
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Neme TOM				·	ated Mechanic		1	
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Neme         TOM           Address         521 1           City         FOR1           Zip         33907	LINSON AVIC DANLEY DR MYERS	<u>NICS O</u> F F		U. S. Certific Foreign Certificated F Certificated F	ated Mechanic ficated Mechanic Repair Station Aaintenance Organia	zation	Certifi 6TR09	cate No. 17X;radiol.II.III,lto
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircra	aft nationality and registration mark and date	s work completed.)
	N414MP	11/16/10
	Nationality and Registration Mark	Date
REMOVED KING KCS 55A HSI AND COMPONENTS.		
INSTALLED GARMIN G600 PFD/MFD PER STC SA02153LA- E DATED NOV 2009.	D AND GARMIN INSTALLATION MAN	iual P/N 190-00601-06 Re
APPROPRIATE CIRCUIT PROTECTION PROVIDED FOR ALL	UNITS INSTALLED AND PLACARDE	D PFD, ADC AND AHRS.
WEIGHT AND BALANCE AND EQUIPMENT LIST UPDATED.		
COMPASS GROUND CHECKED OKAY.		
ELECTRICAL LOAD DOES NOT EXCEED 80% OF ALTERNAT	ORS CAPABILITY.	
ALL SYSTEMS GROUND AND FLIGHT CHECKED OKAY.		
APPROPRIATE PILOT OPERATING GUIDES INSTALLED IN A 190-00601-01 REV D, DATED 11/17/09 WAS INSTALLED FO END		GARMIN DOCUMENT
2		

Additional Sheets Are Attached

2									OMB No Exp: 8/3	o. 2120-0020 11/2014	Electronic Tracking Number
US Department of Transportation Federal Aviation Administration	n		OR REPAIR AM Powerplant, Pi	-							For FAA Use Only
instructions	and disposi	or type all en ition of this for .C. §46301(a))	iries. See Title 14 n. This report is re	- Cf	FR §	§43.9, Part 43 by law (49 U.9	Appendi: S.C. §447(	( B, and J1), Fail	AC 43.9 ure to rep	-1 (or sui ort can re	bsequent revision thereof) for esult in a civil penalty for each
	Nationalit N414M	y and Registrat P	ion Mark				Serial N	<sup>io.</sup> 414	4A031	17	
1. Alrcraft	Make C	ESSN.	4				Model 4	414,	Ą		Series
	Name (As	shown on reg	stration certificate)		-					gistration	certificate)
2. Owner	ATLAN	NTA AIRC	RAFT SALES	SI	NC	<u>}</u>	City	600 SKYLI NEW SMY	NA BEACH		State FLORIDA
					2 1	For FAA Use	Zip	32168-5948	3	Cour	Thy UNITED STATES
4. Тур	)e				5. 1	Unit Identifica	itlan				
Repair	Alteration	Unit		Ma	ske			ľ	Model		Serial No.
xx		AIRFRAME					(As de	escribed	in Item 1 a	above)	
		POWERPLAN	11								
		PROPELLER		-		_					
· 🗆 .		APPLIANCE	Type Manufacture <del>r</del>								
A. Agency's N	ame and A	ddrosg		6	-	nformity Stat Kind of Agend			-		· · · · · · · · · · · · · · · · · · ·
	RD O'HEARN				XXX	U.S. Certific	•	nic		Mar	
Address PO Box nam		· · ·	GEORGIA			Foreign Cent				C. Certif	icate No.
City <u>GRIFFIN</u> Zip <u>30224</u>			Sidio			Certificated F Certificated N			ation		2640972
have be	en made in	accordance w	ation made to the u th the requirements t to the best of my i	s of	Paπ	43 of the U.S	5 above : Federa; ,	and desc Aviation I	ribed on t Regulation	he revers ns and tha	e or attachments hereto at the information
Extended rang per 14 CFR P App, B		Sig		50	bie	c At	P 26		72_	41	4/13
Purshant tr	the suth	rity given per	· · · · · · · · · · · · · · · · · · ·			val for Return e unit identifi			s inspect	ed in the	e manner prescribed by the
Administrate	or of the Fee	leral Aviation /	dministration and is		, 7-		Approvi		Rejecte	d	
BY Inspector						aintenance Or	ganization	_		tment of T	ed by Canadian ransport
	A Designee			xxx		spection Auth	prization	Ľ			
Certificate or Designation N	o. 26270	59 <sup>Sig</sup>	nature/Date of Auth	irori K	zed !	atum	um.		APR	/4/:	2013

FAA Form 337 (10/06)

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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

B. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nati	onality and registration mar	k and date work completed.)
	N414MP	APR4/2013
	Nationality and Registratio	n Mark Date .
1. REMOVED DAMAGED RUDDER UPPER SKIN AND REPLAC	ED WITH NEW SKIN	P/N 5133020-50.
2. REMOVED DAMAGED RUDDER CHANNEL AND REPLACED	O WITH NEW CHANN	EL P/N 5133020-18,
3. ALL WORK PERFORMED IN ACCORDANCE WITH CESSNA CIRCULAR 43 13-1B CH. 4-57A & 4-57F.	414A SERVICE MANU	JAL AND ADVISORY
4. AIRCRAFT IS CURRENTLY UNDERGOING COMPLETE REP. SATISFACTORY BALANCE CHECK WITH LOGBOOK ENTRY I REPAIR PRIOR TO NEXT FLIGHT.	AINT BY SEPARATE / MUST BE ACCOMPLI	AGENCY. RUDDER PAINT AND SHED AFTER DATE OF THIS
EIGENRE CONTROL PLACE		
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Additional Sheets	Are Attached	

FAA Form 337 (10/06)

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8				R REPAIR AN		<u>م</u>	TERATION			Form Ap OMB No 11/30/20	), 2120-0020 107	,	Tracking Number		
US Department of Transportatio Federal Avlath Administration	חנ <b>חכ</b>			owerplant, P				-		For FAA Us	ə Only				
instructions		ition of this	form.										evision thereof) for vil penalty for each		
	Nationality	y and Regi	stration	n Mark N414	MF	5		Serial No. 414A031	7						
1. Aircraft	Make							Model							
	Cessn							C-414A							
		s shown on a Aircraf	-	ation certificate)				Address (As Address 3287				certificate)			
2. Owner									sboro				_State GA		
								zip <u>3023</u> Only	0		Count	try			
						<u>v.</u> 1	For FAA Use	~1							
	pe					5, 1	Unit Identific:	ation							
Repair	I								Мас	lel			Serial No.		
	X							(As descrit	above)						
		POWERF													
			CANE					<u> </u>							
		PROPEL	LER									<u> </u>			
				Туре											
		APPLIAN	CE	Manufacturer											
		•			6		onformity Sta					-			
A. Agency's	Name and A tern Avionic		unicat	tions Inc		B.	Kind of Agend	ated Mechanic			Mon	nufacturer			
Name South Address MOB		TOWN AIF	RPORT	F	_	$\vdash$	+	ificated Mechanic	;			icate No.			
city MOB	LE			State AL		X	Certificated I	Repair Station			HW4R4		LMTD INSTRUME		
zip <u>3661</u>		untry			_			Maintenance Org			RADIO				
have b	een made in	i accordanc	æ with	ion made to the i the requirements o the best of my k	: af	Раг	t 43 of the U.S	em 5 above ar 5. Federal Aviat	id desc ion Reg	cribed o gulation	on the rev ns and the	erse or at at the infor	tachments hereto mation		
Extended rar				ture/Date of Auth			-								
per 14 CFR   App. B			.	- 40, 0040					40.	24	1.1				
			June	e 18, 2013	An	nro	John D. The val for Return		- 9.	and	м				
Pursuant I Administra	to the author tor of the Fe	ority given deral Aviati	perso ion Adri		low		e unit identif			inspect Rejecte		e manner	prescribed by the		
l In	AA Fit. Sland spector	dards	Man	ufacturer		м	aintenance O	ganization		Depa	rtment of T	ed by Cana ransport	dian		
BY	AA Designee	• X	Repa	air Station		In	spection Auth	orization	Othe	er (Spe	acify)				
Certificate or		1	Signa	ature/Date of Auth	horiz	zed	Individual								
Designation I HW4R			Jure	e 18, 2013			John D. Th	eobald A	hg.	Jul	u				
FAA Form				e 10, 2013			John D. (1)			V					

	nce or operating limitation changes shall be enter all previous alterations to assure continued confor		
8. Description of Wa (If more space is i	ork Accomplished required, attach additional sheets. Identify with aircraft n	ationality and registration m	ark and date work completed.)
		N414MP	06/18/2013
	THIS 337 IS FOR RECORDA	Nationality and Registr TION PURPOSES ONL	
REMOVED:	GNS 430W P/N 011-01060-40		
INSTALLED:	GTN-750 NAV/COM/GPS/WAAS P/N 011 GA-35 ANTENNA P/N 013-00235-00 @ SPLITTER P/N ZFSC-2-1 @ STATION	STATION 151.0	N 110.5
	IN-750 SYSTEM IS INSTALLED IN ACCORDA 5, DATED APRIL 2013.	ANCE WITH GARMIN II	NSTALLATION MANUAL P/N 190-
THE GA-35 ANTI NUMBER N414M	ENNA WAS INSTALLED IN ACCORDANCE W IP-050213-1.	/ITH STRONG AEROS	PACE ENGINEERING DRAWING
	APPROVED FOR INSTALLATION IN THIS AI NATIONAL INC. 18 MARCH 2011 AND AMENE		
GWX 70 RADAR ACCORDING TO	IN-750 IS INTERFACED TO THE G600 SYST AND THE #1 GTX 327 TRANSPONDER USIN MANUFACTURER'S INSTRUCTIONS. THE I JIPMENT, SYTEMS AND PREVIOUS ALTERA	IG STANDARD INTERI NEWLY INSTALLED E	FACING TECHNIQUES
THIS INSTALLAT	TION DOES NOT DEVIATE SUBSTANTIALLY TED STC.	FROM THE INSTALLA	TION MANUAL AS REFERENCED IN
	. LOAD ANALYSIS WAS CONDUCTED AND F NOT EXCEED 80% OF CAPACITY.	OUND THAT MAX LO	AD OF THE AIRCRAFT ELECTRICAL
INSTALLATION M	TION CHECKS HAVE BEEN CONDUCTED IN MANUAL CHECKOUT PROCEDURES. PROP SE EFFECT ON ANY OTHER EQUIPMENT OF	ER OPERATION WAS	CONFIRMED AND EQUIPMENT
	BEEN ACCOMPLISHED IN ACCORDANCE W C 43.13-1B CHAPTERS 11 & 12 AND AC 43.13		
WEIGHT AND BA	ALANCE/EQUIPMENT LIST HAS BEEN AMEN	ided. Log book ent	TRIES HAVE BEEN MADE.
	URER'S FAA APPROVED AIRPLANE FLIGHT 2013 HAS BEEN INCLUDED IN THE FAA AF		
	URER'S FAA APPROVED INSTRUCTIONS F( \1, REV 5, DATED MARCH 2013 WILL BE MA		
	**************************************	******	
	Additional Sh	eets Are Attached	

0			JAJO	R REPAIR AN	D /		TERATION	,			\pproved \o. 2120-002 2007		Tracking Number		
US Departmen of Transportat Federal Aviat Administratio	on ion			Powerplant, Pr								I DI FAM US			
instruction		ition of th	is form.										evision thereof) for ivil penalty for each		
	Nationalit	y and Reg	jistratio	n Mark N414	MP	,		Serial N 414A	No. 10317						
1. Aircraft	Make					Model									
	Cessr		n raniel	tration certificate)				C-41		wa op za	mistration	certificate)	1		
		a Aircra						Address	3287 Bay	View E					
2, Owner						1.5,	Jonesboi 30236	0	Con	intry	_ <sub>State</sub> _GA				
								Dnly							
4. Ty	/pe	-			:	5. L	Init Identifica	ation			-				
Repair Alteration Unit									N	lodel			Serial No.		
	X	AIRFRA	ME			(As described in					above)				
		POWER	PLANT												
		PROPE	LER												
		APPLIA	NCE	Type Manufacturer											
A Accordo	Name and A	ddroes			_		nformity Sta Kind of Agend								
Name Sout	Name and A hern Avionic	s & Com			_+		U. S. Certific		anic		Ma	anufacturer			
	ILE DOWN	TOWN A	RPOR		- [	Ĵ	Foreign Cerl				+	ificate No.			
City <u>MOE</u> zip 3661		untry		State AL	-	×	Certificated I	-		tion	HW4R RADIC		LMTD INSTRUME		
D. I certify that the repair and/or alteration made to the up have been made in accordance with the requirements of furnished herein is true and correct to the best of my kr						<b>'</b> art	entified in ite 43 of the U.S	em 5 abo	ve and de	escribed		averse or at	lachments hereto mation		
Extended ra			Sign	ature/Date of Auth	oriz	ed I	ndividual		-		_				
per 14 CFR App. B	Part 43		Jur	ne 18, 2013			John D. Th	eobald	Ane	Jul	eld				
					_		al for Return		ce						
Pursuant Administra	to the authoritor of the Fe	ority give der <mark>al</mark> Avia	n pers ition Ad	ons specified beli Iministration and is	ow,	ihe		ied in ite X Approv		s inspec Rejec		he manner	prescribed by the		
1 1	AA Fit. Stand hspector	lards	Mar	nufacturer		Ma	aintenance Or	ganizatio		Dep	artment of	ved by Cana Transport	dian		
BY F	AA Designee	, X	Rep	pair Station		เกร	spection Auth	orization	0	ther (Sp	necify)				
Certificate or		1	Sign	ature/Date of Auth	ioriz	ed I	Individual								
Designation HW4F			Ju	ne 18, <b>2013</b>			John D. Th	eobald	ghe	th	hun				
	HW4R427M June 18, 2013								1						

FAA Form 337 (10-06)

	ance or operating limitation changes shall be en all previous alterations to assure continued co			be
8. Description of W (If more space is	ork Accomplished required, attach additional sheets. Identify with aircra	ft nationality and registration mark	and date work completed.)	
		N414MP	06/18/2013	
	THIS 337 IS FOR RECOR	L Nationality and Registration DATION PURPOSES ONLY	on Mark Date	f
REMOVED:	GNS 530W P/N 011-01064-40 GA-35 ANTENNA P/N 013-00235-00			
INSTALLED:	GTN-750 NAV/COM/GPS/WAAS P/N GA-35 ANTENNA P/N 013-00235-00 DIPLEXER P/N CI-507 @ STATION	@ STATION 151	110.5	
	TN-750 SYSTEM IS INSTALLED IN ACCOR 5, DATED APRIL 2013.	DANCE WITH GARMIN INS	TALLATION MANUAL P/N	I 190-
THE GA-35 ANT NUMBER N414M	ENNA WAS INSTALLED IN ACCORDANCE //P-051013-1.	WITH STRONG AEROSPA	CE ENGINEERING DRAV	VING
	APPROVED FOR INSTALLATION IN THIS NATIONAL INC. 18 MARCH 2011 AND AME	· · · · · · · · · · · · · · · · · · ·		)
AND THE #1 GT. MANUFACTURE	TN-750 IS INTERFACED TO THE G600 SY X 330ES TRANSPONDER USING STANDA R'S INSTRUCTIONS. THE NEWLY INSTAI (TEMS AND PREVIOUS ALTERATIONS.	RD INTERFACING TECHNI	QUES ACCORDING TO	
THIS INSTALLAT	TION DOES NOT DEVIATE SUBSTANTIALI TED STC.	Y FROM THE INSTALLATIO	ON MANUAL AS REFERE	NCED IN
	LOAD ANALYSIS WAS CONDUCTED ANI NOT EXCEED 80% OF CAPACITY.	D FOUND THAT MAX LOAD	OF THE AIRCRAFT ELEC	CTRICAL
INSTALLATION I	TION CHECKS HAVE BEEN CONDUCTED MANUAL CHECKOUT PROCEDURES. PRO SE EFFECT ON ANY OTHER EQUIPMENT	OPER OPERATION WAS C	ONFIRMED AND EQUIPM	
	BEEN ACCOMPLISHED IN ACCORDANCE C 43.13-1B CHAPTERS 11 & 12 AND AC 43			
WEIGHT AND B	ALANCE/EQUIPMENT LIST HAS BEEN AM	ENDED. LOG BOOK ENTR	IES HAVE BEEN MADE.	
	URER'S FAA APPROVED AIRPLANE FLIG L 2013 HAS BEEN INCLUDED IN THE FAA			REV 3,
	URER'S FAA APPROVED INSTRUCTIONS A1, REV 5, DATED MARCH 2013 WILL BE			
	******************************	ID**********		
	X Additional	Sheets Are Attached		

Additional Sheets Are Attached

8				JOR REPAIR A		<u>۸</u>	ΤΕΡΑΤΙΟΙ				Form Ap OMB No 11/30/20	2120-0020		Tracking Number
US Departmen of Transportat Faderal Aviat Administratio	ion ion	(Air		e, Powerplant, P				-					For FAA Us	e Only
instruction		ition o	f this fo	entries. See Title 14 orm. This report is re										
	Nationality	y and I	Registr	ation Mark N414	4MP	,		Serial 414/	No. 10317			_		
1. Aircraft	Make Cessn	a						Model C-41						
2. Owner				egistration certificate) Sales Inc	l			Address	3287 B	ay V	i <i>on reg</i> iew Dr	<i>istration</i> ive	certificate) 	
2. Owner								City Zip	Jonesb 30236	oro		Cour	NITY	StateGA
						3. F	or FAA Use		•					
<b>4.</b> Ty	ype					5. 1	Unit Identific	ation					<u>.</u>	
Repair	Repair Alteration Unit									Mod	el		ļ	Serial No.
	X	AIRF	RAME			(As described in It						bove)		
		POW	/ERPL/											
		PRO	PELLE	R										_
		APPI	LIANCI	Type Manufacturer										
	Name and A	ddroes					onformity Sta Kind of Agen							
	Name and A hern Avionic			nications, Inc.			U, S. Cerlific		anic			Mai	nufacturer	
		TOWN	AIRP		- [		Foreign Cer						ficate No.	
city <u>MOE</u> zip 3661	-	untry		StateAL	-	X	Certificated			Izatio		HW4R4 RADIO		
D.   certify that the repair and/or alteration made to the un have been made in accordance with the requirements or furnished herein is true and correct to the best of my kno						Parl	t dentified in it t 43 of the U.3	em 5 abo	ve and	desc	cribed o	on the rev as and th	verse or at at the info	tachments hereto
Extended ra per 14 CFR App. B			5	Signature/Date of Au June 18, 2013	thoriz	ed	Individual John D. Th	eobald	ghi	Θ.,	24 e			
					, Apr	aro	val for Retur	_		6		-1		
Pursuant Administra	to the author of the Fe	ority g deral A	jiven p Avietior		elow,		e unit identi		em 5 v	vas	inspect Rejecte	ed in th d	ie mannei	r prescribed by the
	FAA Fit. Stand	dards		Manufacturer		м	aintenance C	rganizatio	n		Depar	lment of T	ed by Cana Fransport	dian
BY	FAA Designee	•	х	Repair Station		In	spection Aut	norization		Othe	er (Spe	cify)		
Certificate o			5	Signature/Date of Au	thoriz	ed			5					
Designation No.     June 18, 2013     John D. Theobald     June 10, 2013														

FAA Form 337 (10-06)

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work	Accomplished	······································	· · · · · · · · · · · · · · · · · · ·
(If more space is requ	uired, attach additional sheets. Identity wit	th aircreft nationality and registration mark and de	te work completed.)
		Nationality and Registration Mark	
	THIS 337 IS FOR RE		C Date
REMOVED:	GARMIN GTX 330 TRANSPO	ONDER P/N 011-00455-00 @ STATION	111.0
INSTALLED:	GARMIN GTX 330ES TRANS	PONDER P/N 011-00455-60 @ STATIO	N 111.0
	330ES WITH ADS-B OUT TRANSF NUAL P/N 190-00734-10, REV 2, I	PONDER SYSTEM IS INSTALLED IN AC DATED APRIL 2013.	CORDANCE WITH GARMIN
	APPROVED FOR INSTALLATION FIONAL INC. 1 MAY 2013.	I IN THIS AIRCRAFT UNDER STC # SAU	01714WI ISSUED TO
327 TRANSPONDE MANUFACTURER'S	R FOR SUPPRESSION USING S	#1 GTN 750, GMA350 AUDIO PANEL, TANDARD INTERFACING TECHNIOUE NSTALLED EQUIPMENT IS COMPATIB NS.	S ACCORDING TO
THIS INSTALLATIO		NTIALLY FROM THE INSTALLATION MA	ANUAL AS REFERENCED IN
	DAD ANALYSIS WAS CONDUCTE T EXCEED 80% OF CAPACITY.	ED AND FOUND THAT MAX LOAD OF T	HE AIRCRAFT ELECTRICAL
INSTALLATION MA	NUAL CHECKOUT PROCEDURES	JCTED IN ACCORDANCE WITH THE AB S. PROPER OPERATION WAS CONFIF MENT OR SYSTEMS INSTALLED IN TH	RMED AND EQUIPMENT
		DANCE WITH THE ABOVE REFERENCE O AC 43.13-2B CHAPTERS 1, 2 & 3.	ED INSTALLATION
WEIGHT AND BALA	NCE/EQUIPMENT LIST HAS BEE	EN AMENDED. LOG BOOK ENTRIES H	AVE BEEN MADE.
		E FLIGHT MANUAL FOR THE GTX 3300 IN INCLUDED IN THE FAA APPROVED	_
	P/N 190-00734-11, REV 1, DATED	TIONS FOR CONTINUED AIRWORTHIN MAY 2013 WILL BE MADE PERMANEI	
	*****	****END******************	
		ditional Sheets Are Attached	

	2			<b>F U</b>				<u></u>					Form App OMB No. 11/30/20(	2120-0020	2	Tracking Number
of Ti Fed	Departmer ransportati aral Aviat ninistratio	ол Ìon	(Airl		JOR REPAI e, Powerplai										For FAA Us	e Only
IN: ins	STRUC struction	TIONS: Print	ition of	f this f	form. This report											evision thereof) for ivil penalty for each
				· ·	ration Mark	J414N	ЛÞ			Serial	No. 40317		<b>-</b>			
1. Ai	rcraft	Make					Model									
<u> </u>				n on n	oristration certifi	icatel	_			C-41		rowr	00.000	istration	certificate	1
2 04	Name (As shown on registration certificate) Atlanta Aircraft Sales Inc									Address	3287 B	ay V				
2.0										City Zip	Jonesb 30236	oro		Cour	ntry	Slate GA
							3	3. Fo	r FAA Use	Only					-	
	4. Ty	/pe					5	5. Ur	nit Identific	ation					1	
R	Repair Alteration Unit						/lake	lake Mo								Serial No.
		X	AIRF	RAME			_		_	(As a	lescribed	t in t	tern 1 a	bove)		
			POW	ERPL	ANT											_
			PRO	PELLE	ER											
			APPI	LIANG	Type Hanufacture	ə <b>r</b>										
		No ma and A	dalaa ar				_		formity Sta							
A. A. Name		Name and A hern Avionic			inications, Inc.	_	-+'		U.S. Certific	-	anic			Ма	nufacturer	
		ILE DOWN	TOWN	AIRE			- [		Foreign Cer						ficate No.	
City Zip	<u>MOE</u> 3661		untry		<u>AL مادا\$A</u>		-	×	Certificated Certificated			zatio	n.	HW4R4 RADIO		LMTD INSTRUM
D. I certify that the repair and/or alteration made to the up have been made in accordance with the requirements of furnished herein is true and correct to the best of my kn						of P	art 4	3 of the U.S	em 5 abc 3. Federal	ive and Aviation	dese i Re	cribed o gulation	n the re is and th	verse or al lat the info	tachments hereto mation	
		nge fuel			Signature/Date of	of Autho	orize	ed In	dividual							
per App		Part 43			June 18, 2013	3			John D. Th	eobaid ,	gho.	the	w			
						7. A		rova	for Retur	n to Serv	ice					_
Pu Ac	ursuant Iministra	to the auther ator of the Fe	ority g deral A	jiven Aviatio	persons specifion Administration	ed belo and is	JW,	the	unit identi [	nit identified in item 5 was inspected in the manner prescribe					r prescribed by the	
DV		AA Fit. Stand	dards		Manufacturer			Mai	ntenance O	nce Organization Persons Approved by Canadian Department of Transport						dian
BY	F	AA Designed		x	Repair Station			Insp	pection Aut	norization		Othe	er (Spe	cify)		
	ificate o				Signature/Date	of Autho	orize									
Designation No. HW4R427M June 18, 2013 June 18, 2013							John D. Th	eobald	flio	H	el					

FAA Form 337 (10-06)

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be
compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Acc (If more space is required	omplished	aircraft nationality and registration mark and date	work completed.)
(	,, , ,, , ,, , ,, , ,, , ,, , , , , , , , , , , , , , , , , , , ,	N414MP	06/18/2013
		Nationality and Registration Mark	Date
	THIS 337 IS FOR REC	CORDATION PURPOSES ONLY	
	THIS 337 IS FOR REC	CORDATION FORFOSES UNET	
REMOVED:	AUTO PILOT CONTROLL AUTO PILOT ANNUNCIAT ALTITUDE SELECTOR P/ PITCH FLIGHT GUIDANC	TOR P/N 0141	ONSISTING OF:
INSTALLED:		PILOT SYSTEM CONSISTING OF:	
		N 01192-12-2PX @ STATION 111.5 ANNUNCIATOR P/N 01188-2PX @ STAT	TION 114.0
		<u> </u>	
		ALL IS AN UPGRADE PATH FROM THE E RETAINED AND REUSED FOR THIS U	
CORPORATION FAA A MASTER DRAWING LI INSTALLATION IN THIS	PPROVED INSTALLATION BUL ST NUMBER 92758, REV C, DA	EL ST-578 WAS INSTALLED IN ACCOR LLETIN NO. 678, REVISION 3, DATED 5 ITED 5 OCTOBER 2011. THE SYSTEM 08996AC-D-D ISSUED TO S-TEC CORP 2001.	OCTOBER 2011 AND 55X IS APPROVED FOR
ALL WORK WAS ACCO CHAPTERS 2 & 3.	OMPLISHED IN ACCORDANCE	WITH AC 43-13-1B, CHAPTERS 10 & 1	1 AND AC 43-13-2B,
	TESTS WERE CONDUCTED PE ROPER OPERATION WAS COM	ER ABOVE REFERENCED INSTALLATION FIRMED.	DN CHECK-OUT
LOGBOOK ENTRY HAS	S BEEN MADE.		
WEIGHT AND BALANC	E/EQUIPMENT LIST HAS BEEN	N AMENDED.	
	PLANE FLIGHT MANUAL SUPF AIRCRAFT PILOT'S OPERATIN	PLEMENT DOCUMENT P/N 891157, DAT NG HANDBOOK.	FED 25 APRIL 1995 HAS
+++++++++ SEE A	S-TEC DOCUME	JRCTIONS FOR CONTINUED AIRWORT NT P/N 81362 REVISION 3 + END +++++	'HINESS ++++++++++
	X Addi	itional Sheets Are Atlached	

U.S. Departme of Transportation Federal Aviation Administration	m (/			REPAIR / werplant,					)	Form Ap OMB No 11/30/20	proved . 2120-0020 07 For FA	Electronic Tracking	) Number
INSTRUCT instructions such violatio	and dispos	ition of this f	form. T	. See Title 14 C This report is rec	FR §4 quired	43.9, Pa by law	art 43 App (49 U.S.C	endix B, and A( ), §44701). Fai	C 43.9-1 (or lure to report	subseque l can resu	ent revisio ult in a civi	n thereof) for il penalty for ea	ıch
		and Registrati	,	ç.			8	erial No.					
1. Aircraft	USA	N414	MP				4	414A0317					
I. AIIÇI'diL	Make							Model Series					
	CESSN	<u> </u>					!	414A					
Name (As shown on registration certificate) ATLANTA AIRCRAF'T SALES INC. 2. Owner								Address(As show) 600 SKYLIN NEW SMYRNA 32168-5948	E DR BEACH, 1		-		
	1					3. F	or FAA U	se Only					
4. Ty	ре					5. Un	it Identifi	cation			1		
Repair	Alteration	Unit		I	Make			Model Serial No.					
X		AIRFRAM	ME					(As described	l in Item 1 a	bove)			
		POWERPI											
		PROPELL	ER										
			E	Type Manufacturer									
						6. Co	onformity	Statement					
A. Agency's	Name and	d Address				B. I	Kind of Ag	ency					
JIMMY L	GARLAI	Ð				X		rtified Mechanic			nufacturer		
-		COLLEGI	E PAR	KWAY				Certified Mecha	inic		ficate No.		
WALESKA 30183	, GA. 30	)183						Repair Station Maintenance C	ragnization	34791	16 ASP		
D. I certify have be	en made i	n accordanc	e with t	on made to the the requirement o the best of my	s of P	Part 43 (	ied in iteπ	15 above and d	escribed on	the rever	se or attac hat the inf	chments hereto ormation	)
Extended rar per 14 CFR I App. B			Signatu	ure/Date of Author	zed In	dividual	De	luid				JIMMY L. GA 22-Jt	ARLAND uly-2013
								to Service					
Pursuant to Administrat	o the auth or of the	ority given Federal Avi	person iation /	is specified be Administration	low, f and is	the uni	t identifie X Ap		as inspected		manner	prescribed by	the
	A Fit. Stand	ards	Manuf	facturer		Mainter	nance Orga	nization		ns Approve Iment of Tr	ed by Canac ransport	llan	
BY F/	A Designee		Repai	ir Station	x	Inspect	tion Authori	zation	Other (Speci	fy)			
Certificate o			Signatu	ure/Date of Author	ized In	dividual	1 1/	11-	1				
Designation	JIMMY L. GARLAND 3479116 IA 22-July-2013												
341ATT0	IA 337 (10-06)			y.	and and	my		muc				22-01	

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

3. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality is	and registration n	ark and date work co	mpleted.)
	USA	N414MP	Jul-22-2013
INSTALLED SCAB PATCH ON RIGHT ENGINE FIREWALL TO REPAIR A SMALL STAINLESS STEEL PATCH AND RIVETED ON WITH MONEL RIVETS. REPAIRE OF COWL DOOR BY MANUFACTURING AND INSTALLING A PATCH FROM .040	CRACK UNDER ED HOLE WORN 2024T3 ALUMIN	IN LEFT INBOARD I IUM WITH DRIVEN F	NACELLE SKIN AFT RIVETS AND HYSOL.
INSTALLED SCAB PATCHES ON INSIDES OF TOP COWLINGS AT THE FRONT ONE DOUBLER ANGLE AT THE AFT TOP END OF THE TOP THE LEFT COWLIN FRAME. MANUFACTURED DOUBLER AND FILLER PATCH FROM 2024T3 ALUM SEAMS AND SANDED SMOOTH. ALL WORK ACCOMPLISHED IN ACCORDANC REVISION 34, SECTION 16, STRUCTURAL REPAIRS, AND AC 43.13-1B SECT END	NG. DRILLED OF MINUM AND INST E WITH CESSN	F ALCOHOL SERVIC ALLED WITH DRIVE A 414A SERVICE MA	CE DOOR AND IN RIVETS, FILLED

ADDITIONAL SHEETS ARE ATTACHED

6					EDAT			Form App OMB No. 11/30/200	2120-0020	
U.S. Departme of Transportation Federal Aviation Administration	on (/		werplant, Proj			)		For FAA Use Only		
instructions	and disposi	or type all entries ition of this form. S. C. §46301(a))	<ol> <li>See Title 14 CFR §43 This report is required b</li> </ol>	3.9, Pa by law	art 43 App (49 U.S.(	endix B, and AC C. §44701), Fail	C 43.9-1 (or s lure to report	ubseque can resu	nt revision thereof) for It in a civil penalty for each	
	Nationality a	and Registration Mar	k			Serial No.				
1. Aircraft	USA Make	N414MP				414A0317 Model Series				
	CESSNA	A				414A				
2. Owner		shown on registratio			Address (As shown 600 SKYLIN NEW SMYRNA 32168-5948	E DR BEACH, E				
	·			3. F	or FAA U	se Only				
4. Ty	pe			5. Un	it Identif	ication				
Repair	Alteration	Unit	Make				Model Serial No.			
	X	AIRFRAME				(As described	l in Item 1 al	bove)		
		POWERPLANT								
		PROPELLER								
			Type Manufacturer							
		<u> </u>			*	/ Statement				
A. Agency's	S Name and			B. P	Kind of Ag	gency ertified Mechanic		Mar		
11247 R	EINHARDT	COLLEGE PA	RKWAY		Foreign Certified Mechanic			C. Certificate No.		
WALESKA 30183	, GA. 30	183				d Repair Station	Draanization	34791	16 A&P	
D. I certify have b	een made i	n accordance with	tion made to the unit(s) in the requirements of Pa to the best of my knowle	art 43 (	, ied in iter	π 5 above and d	escribed on	the reventions and the	se or attachments hereto hat the information	
Extended ran per 14 CFR App, B		Signa	ture/Date of Authorized Ind	ividual	and	)			JIMMY L. GARLANI 22-July-201:	
						n to Service				
Pursuant t Administrat	o the auth tor of the	ority giver perso Federal Aviation	ons specified below, th Administration and is	ne uni		ed in item 5 w oproved	Reject	ed _	manner prescribed by the	
								Persons Approved by Canadian Department of Transport		
BY	AA Designee		air Station X		tion Author	ization	Other (Speci	(V)		
Certificate of Designation 3479116	n No.	Signa	ture/Date of Authorized Ind		hu	0			JIMMY L. GARLANI 22-July-201	
FAA Form	337 (10-06)	/	).							

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

B. Description of Work Accompliand Ultravio Service is regulated, additional sheets. Identify with elicraft nationality and registration mark and date work completed.           Usra         Nationality and Registration Mark         Date           ONTIMUED ALL CONTINUES AND MARKEN THE CONTINUE AND MARKENT THEOREMENT LIST UPACIDAL         Date           PERFORMANCE MODIFICATIONS STO SADISSES APER DRAWING INSTALLATION WAS RECOMPLAY THEOREMENT LIST UPACID         Date           ONTIMUED ALL CONTINUES AND CONTINUES AND MARKENT THEOREMENT ATTACHED TO ALRCRAFT RECORDS         Delawinko List SPAGO, BOTH DATED MARCH 29, 1990. THIS INSTALLATION WAS ACCOMPLIAND END THEOREMENT LIST UPACID           NISTALLED SPOLERS INC. SPOLERS STREED AND CASE WITH INSTALLATION WAS ACCOMPLIAND AND ARRCRAFT DOOLMENTS, FAA           APPROVED INSIGHT AND ALL SUPLEMENT ADDOR SAUGE AND AADTED           PARMONDE DIATION WAS ACCOMPLIAND AND CONDRAVE WITH INSTALLATION WAS ACCOMPLIAND AND ARRCRAFT RECORDS AND UPACE           MARCHAFT MARLA SUPLEMENT ADDOR SAUGE AND AASTED TO THE STALLED J. PLINTER MERNET LIST UPACIDE           NATALLED SPOLERS INC. SPOLENCE ADDRAGENT IN AND ALL SPOLENCE AND AND ARRCRAFT REC				
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1. INSTALLED ARRORATT PERFORMANCE MODIFICATIONS EXTERNAL AFT BODY STRAKES IN ACCORDANCE WITH ARCHART PERFORMANCE MODIFICATIONS STG SAN 393416 PER DRAWING ING G3-20506-007, REV J, DATED 123108, INSTRUCTIONS FOR CONTINUED ARRORATT RECORDS. EQUIPMENT LIST UPDATED. THERE IS NO FLIGHT MANUAL SUPPLEMENT FOR THIS MODIFICATION. 2. INSTALLED SPOLERS INC. SPOLER SYSTEM N ACCORDANCE WITH INSTALLATION WAS ACCOMPLISHED PER SPOLERS INC, STG SAN 3940, ROTH DATED MARCH 28, 1980 THIS INSTALLATION WAS ACCOMPLISHED PER SPOLERS INC, STG SAN 3940, SOULERS INC, SPOLERS INC, STG SAN 3940, SOULERS INC, SPOLERS INC, SPOLES INC		USA	N414MP	Jul-22-2013
PERFORMANCE MODIFICATIONS STC 3001392LA PER DRAWING NO. G3203024-00, REV.J. DATED 1221026. INSTRUCTIONS FOR CONTINUED ALWORTHINESS DOCUMENT G300504-00, REV. D. ATTO 2017010 AIRCRAFT RECORDS. EQUIPMENT LIST UPDATED. THERE IS NO FLIGHT MANUAL SUPPLEMENT FOR THIS MODIFICATION. 1. INSTALLED SPOILERS INC. SPOILER SYSTEM IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS SPOID AND MASTER PROVIDED TRISPACES INC. SPOILER SYSTEM IN ACCORDANCE WITH INSTALLATION MASACCOMPLISHED PER SPOILERS INC. STC SA4451MM. SPOILERS INC. INSPECTION QUIDE AND MAINTENANCE SUPPLEMENT ATTACHED TO AIRCRAFT DOCUMENTS. FAA PROVIDE PLIGHT MANUAL SUPPLEMENT ADDED TO FLIGHT MANUAL EQUIPMENT LIST UPDATED. 1. INSTALLED BON AEROSPACE INC. AIRSTAR DOOR SAVER ACCORDING TO DRAWING LIST UPDATED. 1. INSTALLED BON AEROSPACE INC. AIRSTAR DOOR SAVER ACCORDING TO DRAWING LIST UPDATED. 1. INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH BON AEROSPACE, INC. STC SA24405W. EQUIPMENT LIST WAS UPDATED. ICA IS NOT REQUIRED FOR THIS INSTALLATION. 1. INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH BON AEROSPACE, INC. STC SA24405W. EQUIPMENT LIST WAS UPDATED. ICA IS NOT REQUIRED FOR THIS INSTALLATION MANUAL REPORT NO. 780, TWIN TEMPERATURE NDICATING SYSTEM IMACCORDANCE WITH J. P. INSTRUMENTS INSTALLATION MANUAL REPORT NO. 780, AREV NG. ADED 2. AIRCRAFT WEIGHED AND RECORDS UPDATED. 3. AIRCRAFT WEIGHED AND RECORDS UPDATED. 4. AIRCRAFT WEIGHED AND RECORDS UPDATED. 4. AIRCRAFT WEIGHED AND RECORDS UPDATED. 4. AIRCRAFT TEST FLOWN, ALL SYSTEMS OPERAFE NORMALLY AND AIRCRAFT PERFORMS SATISFACTORY. <u>INFTALLATON</u> 4. INFTALLED AND RECORDS UPDATED. 5. AIRCRAFT WEIGHED AND RECORDS UPDATED. 4. INFTALLET ON THE FLIGHT TEST FLOWN, ALL SYSTEMS OPERAFE NORMALLY AND AIRCRAFT PERFORMS SATISFACTORY. <u>INFTALLATON</u> 4. INFTALLES TO A STALLED AND RECORDS UPDATED. 5. AIRCRAFT WEIGHED AND RECORDS UPDATED. 5.	Na	tionality an	d Registration Mark	Date
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THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH BCN AEROSPACE, INC. STC SA2440SW, EQUIPMENT LIST WAS UPDATED. IGA IS NOT REQUIRED FOR THIS INSTALLATION. 4. REMOVED INSIGHT 1200 GEM AND ASSOCIATED WIRING. INSTALLED J. P. INSTRUMENTS EDM 760 TWIN TEMPERATURE INDICATING SYSTEM IN ACCORDANCE WITH J. P. INSTRUMENTS INSTALLATION MANUAL REPORT NO. 760, REV KO, DATED 07/20/99. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH J. P. INSTRUMENTS STC SA20729SE. FLIGHT MANUAL SUPPLEMENT NO. 760, TREV KO, DATED 07/20/99. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH J. P. INSTRUMENTS STC SA20729SE. FLIGHT MANUAL SUPPLEMENT NO. 760, TREV KO, DATED 07/20/99. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH J. P. INSTRUMENTS STC SA20729SE. FLIGHT MANUAL SUPPLEMENT NO. 760, TREV KO, DATED 07/20/99. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH J. P. INSTRUMENTS STC SA20729SE. FLIGHT MANUAL SUPPLEMENT NO. 760, TREV KO, DATED 07/20/99. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH J. P. INSTRUMENTS STC SA20729SE. FLIGHT MANUAL SUPPLEMENT NO. 760, TREV KO, DATED 07/20/99. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH J. P. INSTRUMENTS STC SA20729SE. FLIGHT MANUAL SUPPLEMENT NO. 760, TREV KO, DATED 07/20/99. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH J. P. INSTRUMENTS STC SA20729SE. FLIGHT MANUAL SUPPLEMENT NO. 760, TREV KO, DATED 07/20/99. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH J. P. INSTRUMENTS STEMENT STRUMENTS STORED TO THE FLIGHT MANUAL SUPPLEMENT INSTRUMENTS WITH J. P. INSTRUMENTS STORED TO THE FLIGHT MANUAL SUPPLEMENT INSTALLATION TO TREVENT STRUMENTS STORED TO THE FLIGHT MANUAL SUPPLEMENT INSTALLATION TO TREVENT TO TREVENT STRUMENTS STORED TO THE FLIGHT MANUAL SUPPLEMENT STRUMENTS STORED TO THE FLIGHT MANUAL SUPPLEMENT STORED TO THE STORED TO THE STORE STRUMENTS STORED TO THE	DRAWING LIST SP4000, BOTH DATED MARCH 29, 1990. THIS INSTALLATION WAS SA4913NM. SPOILERS INC INSPECTION GUIDE AND MAINTENANCE SUPPLEMENT	ACCOMP	LISHED PER SPOILE ED TO AIRCRAFT DO	RS INC. STC
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IMMY L. GARLAND 3479116CFI	5. AIRCRAFT WEIGHED AND RECORDS UPDATED.			
	(- J.M. (A)			
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Autoration Autoratio Autoration Autoration Autoration Autoration Autoration Autoration	Federal Aviatio								
1. Aircraft       USA       Na14MP       414A0317         Make       Model       Safes         2. Owner       Amme (As shown on registration cartificate)       Address (As shown on registration cartificate)         Anne (As shown on registration cartificate)       Address (As shown on registration cartificate)         Attern (As shown on registration cartificate)       Address (As shown on registration cartificate)         2. Owner       Attern (As cartificate)       Address (As shown on registration cartificate)         2. Owner       Attern (As cartificate)       Address (As shown on registration cartificate)         2. Owner       Attern (As cartificate)       Address (As shown on registration cartificate)         3. For FAA Use Only       Safes         Attern (D)       Unit       Make         Make       Model       Safes         POWERPLANT	instructions	and disposi	ition of this form.	s. See Title 14 CFR § This report is required	43.9, Part 43 A d by law (49 U.8	ppendix B, and A0 S.C. §44701). Fail	C 43.9-1 (or sub lure to report ca	bsequent revision t an result in a civil p	hereof) for enalty for each
1. Aircraft       Mate CESSNA       Model       Barlies         2. Owner       ATLANTA AIRCRAFT SALES INC.       Address (As shown on registration certificate) GOU SKTLINE DR NEW SMTRNA BEACH, FLORIDA 32166-5948 USA       Science         2. Owner       ATLANTA AIRCRAFT SALES INC.       SWTRNA BEACH, FLORIDA 32166-5948 USA         3. For FAA Use Only       Serial No.         Image: Serial No.       Serial No.         Imade Address       Serial No.	_		-	rk					
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4. Type       S. Unit identification         Repair       Alteration       Unit       Make       Model       Serial No.         Image: Serial No.       Image: Serial No.       Serial No.       Serial No.       Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Serial No.       Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.	2. Owner	1 .	-	•		600 SKYLIN NEW SMYRNA	E DR BEACH, FL		
Repair       Alteration       Unit       Make       Model       Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       POWERPLANT       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       PROPELLER       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       APPLIANCE       Type       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       APPLIANCE       Type       Image: Serial No.       Image: Serial No.       Image: Serial No.         Image: Serial No.       APPLIANCE       Type       Image: Serial No.       Serial No.       Image: Serial No.       Image: Serial No.       Imanufacture: Serial No.       Image	-	ł			3. For FAA	Use Only			
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Image: Second	Repair	Alteration	Unit	Make	<u> </u>		Model	Se	ríal No.
Image: State of the sector		X	AIRFRAME			(As described	l in Item 1 abo	ve)	
Image: Second			POWERPLANT				_		
APPLIANCE       Manufacturer         6. Conformity Statement         A. Agency's Name and Address       B. Kind of Agency         JIMMY L. GARLAND       B. Kind of Agency         11247 REINHARDT COLLEGE PARKWAY       K U. S. Certified Mechanic       Manufacturer         VALESKA, G. 30183       Certified Repair Station       3479116 A62         D. 1 certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U. S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.       JIMMY L. GARLA App B         Extended range fuel per 14 CFR Part 43       Signature/Date of Authorized Individual Market and the information furnished here at the information and is       JIMMY L. GARLA 22-July-2         Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administration and is       X Approved       Rejected         FAA Fit, Standards       Manufacturer       Maintenance Organization       Persons Approved by Canadian Department of Transport         BY       FAA Designee       Repair Station       X       Inspection Authorization       Other (Specify)			PROPELLER						
A. Agency's Name and Address       B. Kind of Agency         JIMMY L. GARLAND       X       U. S. Certified Mechanic       Manufacturer         11247 REINHARDT COLLEGE PARKWAY       Foreign Certified Mechanic       C. Certificate No.         WALESKA, GA. 30183       Certified Mechanic       C. Certificate No.         30183       Certified Mechanic       3479116 A6P         D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U. S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.         Extended range fuel per 14 CFR Part 43 App B       Signature/Date of Authorized Individual App B       JIMMY L. GARLA         Pursuant to the authority given persons specified below, the unit Identified in item 5 was inspected in the manner prescribed by the Administration and is       X       Approved         FAA Fit. Standards Inspector       Manufacturer       Maintenance Organization       Persons Approved by Canadian Department of Transport         BY       FAA Designee       Repair Station       X       Inspection Authorization       Other (Specify)			APPLIANCE						
JIMMY L. GARLAND       X       U. S. Certified Mechanic       Manufacturer         11247 REINHARDT COLLEGE PARKWAY       Foreign Certified Mechanic       C. Certificate No.         WALESKA, GA. 30183       Certified Mechanic       C. Certificate No.         30183       Certified Mechanic       3479116 A&P         D. 1 certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U. S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.         Extended range fuel per 14 CFR Part 43       Signature/Date of Authorized Individual App B       JIMMY L. GARLA         Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administration and is       X       Approved         FAA Fit. Standards Inspector       Manufacturer       Maintenance Organization       Persons Approved by Canadian Department of Transport         BY       FAA Designee       Repair Station       X       Inspection Authorization       Other (Specify)				•		-			
11247       RE INHARDT COLLEGE PARKWAY       Foreign Certified Mechanic       C. Certificate No.         WALESKA, GA. 30183       Certified Maintenance Organization       3479116 A6P         D. 1 certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U. S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.         Extended range fuel per 14 CFR Part 43       Signature/Date of Authorized Individual       JIMMY L. GARLA         App. B       Signature/Date of Authorized Individual       JIMMY L. GARLA         App. B       Signature/Date of Authorized Individual       JIMMY L. GARLA         App. B       Maintenance Organization       Rejected         BY       FAA Fit. Standards Inspector       Manufacturer       Maintenance Organization       Persons Approved by Canadian Department of Transport         BY       FAA Designee       Repair Station       X       Inspection Authorization       Other (Specify)							<u> </u>	Manufacturer	
Control of the second and the second a				rkway					
D.       1 certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U. S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.         Extended range fuel per 14 CFR Part 43       Signature/Date of Authorized Individual       JIMMY L. GARLA 22-July-24         App. B       Signature/Date of Authorized Individual       JIMMY L. GARLA 22-July-24         Reper 14 CFR Part 43       Signature/Date of Authorized Individual       JIMMY L. GARLA 22-July-24         App. B       Signature/Date of Authorized Individual       JIMMY L. GARLA 22-July-24         Farsuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administration and is       Image: Comparization       Persons Approved by Canadian Department of Transport         BY       FAA Fit. Standards       Manufacturer       Maintenance Organization       Other (Specify)		, GA. 30	183		1 1			3479116 ASP	
Extended range fuel per 14 CFR Part 43 App. B       Signature/Date of Authorized Individual 22-July-24       JIMMY L. GARLA 22-July-24         App. B       7. Approval for Return to Service       22-July-24         Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       X Approved       Rejected         Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       X Approved       Rejected         Part 43       Manufacturer       Maintenance Organization       Persons Approved by Canadian Department of Transport         BY       FAA Designee       Repeir Station       X       Inspection Authorization       Other (Specify)	D. 1 certify have be	een made ii	n accordance with	h the requirements of I	s) identified in it Part 43 of the U	em 5 above and d	escribed on the	e reverse or attache and that the inform	ments hereto mation
Approval for Return to Service         7. Approval for Return to Service         Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       X       Approved       Rejected         Administrator of the Federal Aviation Administration and is       X       Approved       Persons Approved by Canadian Department of Transport         BY       FAA Designee       Repair Station       X       Inspection Authorization       Other (Specify)	Extended rar	nge fuel				1			JIMMY L. GARLANI
Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is       Image: Comparison of the manner prescribed by the Rejected         Administrator of the Federal Aviation Administration and is       Image: Comparison of the manner prescribed by the Rejected       Rejected         FAA Fit. Standards Inspector       Manufacturer       Maintenance Organization       Persons Approved by Canadian Department of Transport         BY       FAA Designee       Repair Station       X       Inspection Authorization       Other (Specify)	App. B			The Tan	proval for Ret	urn to Service			<u><u> </u></u>
Inspector     Manufacturer     Manufacturer     Manufacturer     Department of Transport       BY     FAA Designee     Repair Station     X     Inspection Authorization     Other (Specify)				ons specified below,	the unit identi	fied in item 5 w			escribed by the
FAA Designee     Repair Station     X     Inspection Authorization	In		ards Man	ufacturer	Maintenance O	ganization	Departme	ent of Transport	n
	BY F/	AA Designee	Rep	air Station X Inspection Authorization Other (Specify)					
Certificate or Signature/Date of Authorized Individual JIMMY L. GARLA	Certificate o		Signa	ature/Date of Authorized I		1 -	5		JIMMY L. GARLANI
Designation No.	-			China	1 Kon	lind			22-July-201
FAA Form 337 (10-06)	FAA Form	337 (10-06)	1	1 mg	v v				

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

B. Description of Work Accomplished (If more space is required, attach edditional sheets. Identify with aircraft nationality and registration mark and date work completed.)
USA N414MP Jul-22-2013
Nationality and Registration Mark Date
AIRCRAFT MODIFIED PER INTERCOOLER SCOOP INSTALLATION, STRUCTURAL CHANGES AND ENGINES INSTALLED PER RAM DWG. 1765, REV. AC, DATED 10/11/11 PER STC SA09105SC-D (INCLUDES STC SA0720SW-D). FLIGHT MANUAL SUPPLEMENT AFMS 1083 REV. B INSTALLED IN AIRCRAFT.
ENGINES INSTALLED PER RAM DWG 1610, REV. F, DATED 03/22/07 I/A/W STC SA8728SW-D.
INSTALLED HARTZELL SCIMITARPLUS PROPELLERS MODEL PHC-C3YF-2UF PER DWG, 2549, REV. D, DATED 07/21/05 I/A/W STC SA09971SC-D. FLIGHT MANUAL SUPPLEMENT AFMS 1096 DATED MAY 16, 2002 INSTALLED IN AIRCRAFT. NOTE; 78 INCH DIAMETER PROPELLER APPROVED PER RAM DWG1765 REV. AC, IAW SA09105SC-D AND RAM DWG 1610, REV.F IAW SA8728SW-D.
INSTALLED RAM VORTEX GENERATORS AND STRAKES PER DWG. 1507, REV. H, DATED 4/15/04 WITH FLIGHT MANUAL SUPPLEMENT AFMS 1083 FURNISHED WITH CHANGE IN AIRSPEED MARKINGS I/A/W STC SA8125SW-D.
INSTALLED SHADIN FUEL FLOW INDICATING SYSTEM PER DWG. 1078 REV. Z, DATED 08/25/06 I/A/W STC SA5796SW-D.
INSTALLED FLOSCAN FUEL FLOW TRANSDUCERS PER DWG. 1083, REV. S, DATED 09/05/06 I/A/W STC SE5726SW-D
INSTALLED MCCAULEY MC-1 SYNCHROPHASER SYSTEM PER DWG. 1406, REV. N, DATED 08/28/03 I/A/W STC SA8728SW-D.
INSTALLED VACUUM PUMP COOLING SHROUD ON LEFT AND RIGHT ENGINE VACUUM PUMPS I/A/W RAM DWG. 1221, REV. P, DATED 3/19/04 PER STC SA3721SW-D.
CUSTOMER FURNISHED WITH FAA APPROVED OVERHAUL AND PARTS MANUAL SUPPLEMENTS WITH INSTRUCTIONS FOR CONTINUED AIRWORTHINESS FOR ALL ALTERATIONS.
CUSTOMER FURNISHED WITH FAA APPROVED SUPPLEMENTAL FLIGHT MANUALS FOR ALL ALTERATIONS
AIRCRAFT MAXIMUM RAMP WEIGHT INCREASED TO 7140 LBS., MAXIMUM TAKEOFF WEIGHT INCREASED TO 7105 LBS. PER RAM DRAWING NO. 1610 REV.F, DATED 03/23/2007 IAW STC SA8728SW-D.
AIRCRAFT WEIGHED. AIRCRAFT EQUIPMENT LIST AND WEIGHT AND BALANCE RECORDS UPDATED.
AIRCRAFT TEST FLOWN. FLIGHT TEST SATISFACTORY. SIGNED JIMMY L GARLAND 3479116 A&P IA CFI
JIMMY L GARLAND

ADDITIONAL SHEETS ARE ATTACHED

		<u> </u>		_	-				Territori		
2						TO A TION			Form Approve OMB No. 2120	0-0020	Electronic Tracking Number
U.S. Departme					ALTERATION				11/30/2007	A Use Only	
of Transportation Fectival Aviation Administration	on V	Airframe	, Powerplar	nt, Pro	opelle	opeller, or Appliance)					
instructions	and dispos	nt or type all e sition of this fo S. C. §46301	rm. This report is	4 CFR §	43.9, Pa J by law	art 43 Appendix B, and / (49 U.S.C. §44701). Fa	AC 43 ailure	.9-1 (or to report	subsequent re t can result in	evision a civil	thereof) for penalty for each
Such violatit		and Registratio		_	-	Serial No.		-			
	USA	N414M				414A0317					
1. Aircraft	Make					Model			Series		
	CESSN	A				414A					
2. Owner		shown on regis ap Aviat	tration certificate) Lon, LLC		Address (As shown on registration certificate) 93 Old Colony Lane Marshfield, MA 02050 USA						
					3. Fc	or FAA Use Only			-		
4. Ty	pe			-	5. Uni	t Identification	_			_	
Repair	Alteration	Unit		Make			Mod	lel		Se	erial No.
	X					(As described in Item 1 ab				_	
		POWERPLA	NT								
		PROPELLE	2								
			Туре		_						
		APPLIANCE	Manufacturer			-					
				-	6. Cor	nformity Statement	-			-	
A. Agency's	Name and	Address			1	ind of Agency					
NexAir A				_		S. Certificated Mechani	ic		Manufact	turer	
265 FRUI	T STREE	т			Fo	reign Certificated Mech	anic		C. Certificate	No.	
MANSFIEL					Certificated Repair Station						
02048 US	A				Ce	ertificated Maintenance	Orgar	ization			
have be	en made ir	1 accordance	eration made to th with the requirement act to the best of n	ents of P	art 43 of	ed in item 5 above and o f the U. S. Federal Aviat	lescri ion R	bed on ti egulation	he reverse or ns and that th	attach e infor	ments hereto mation
Extended rang per 14 CFR Pi App. B		S	gnature/Date of Auth	* -	dividual	hate				В	ENJAMIN SCHULTZ 16-December-2015
, deller pe			- 11	7. App	roval fo	r Return to Service	_				
			rsons specified I on Administration	below, tl	he unit	identified in item 5 w	as in	spected Rejecte		ner pre	escribed by the
	A Fit. Standa pector	ards M	lanufacturer		Maintena	ance Organization		Persons	s Approved by C nent of Transpo		1
BY FA	A Designee	ł	tepair Station	x	Inspectio	n Authorization	Othe	r (Specify	<i>i</i> )		
Certificate or Designation		S	gnature/Date of Auth	orized Ind	lividual	10	4				MICHAEL REARICH 16-December-2015
				Co							

FAA Form 337 (10-06)

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationalify and registration mark and date work completed.)
USA N414MP Dec-16-2015
Nationality and Registration Mark Date
GENERAL:
ALL WORK PERFORMED CONFORMS TO THE PARAMETERS SET FORTH IN THE FARS AND THE RECOMMENDATIONS AND GUIDELINES SET FORTH IN AC43.13-1B AND AC43.13-2B.
FAA ADVISORY CIRCULAR 43.13-1B, CHAPTER 10, WEIGHT AND BALANCE FAA ADVISORY CIRCULAR 43.13-1B, CHAPTER 11, AIRCRAFT ELECTRICAL SYSTEMS FAA ADVISORY CIRCULAR 43.13-1B, CHAPTER 12, AIRCRAFT AVIONICS SYSTEMS FAA ADVISORY CIRCULAR 43.13-2B, CHAPTER 1, PARA. 100 THROUGH 114, STRUCTURAL DATA FAA ADVISORY CIRCULAR 43.13-2B, CHAPTER 2, PARA. 200 THROUGH 210, RADIO INSTALLATIONS FAA ADVISORY CIRCULAR 43.13-2B, CHAPTER 3, PARA. 300 THROUGH 312, ANTENNA INSTALLATIONS
INSTALLED THE FOLLOWING:
1. GARMIN GDL-69 DATA LINK PER MANUFACTURER'S INSTALLATION MANUAL, 190-00355-02, REV M DATED JUNE 2015. THIS DATA LINK WILL ONLY BE USED AS SUPPLEMENTAL INFORMATION PROVIDING SITUATIONAL AWARENESS TO STANDARD NAVIGATION INSTRUMENTS. FOR REGULATORY COMPLIANCE PLEASE REFERENCE GARMIN STC # SA01487SE. FOR REGULATORY COMPLIANCE PLEASE REFERENCE THE FOLLOWING:
FAA TSO-C157 AIRCRAFT FLIGHT INFORMATION SERVICES-BROADCAST (FIS-B) DATA LINK SYSTEMS AND EQUIPMENT
THE GDL69A RECEIVER WAS MOUNTED IN THE NOSE BAGGAGE COMPARTMENT, NO STRUCTURAL MODIFICATIONS WERE NEEDED.
EXISTING GPS ANTENNA INSTALLATION WAS MODIFIED IN ACCORDANCE WITH N414MP-111115-1 REV N/C DATED 11/11/15 AND DRAWING N414MP-111115-1. GA 35 WAAS GPS ANTENNA REMOVED AND COMANT CI 428-410 XM/WAAS GPS ANTENNA WAS INSTALLED.
2. STEC CORPORATION YAW DAMPER SYSTEM PER MANUFACTURER'S INSTALLATION MANUAL, ST-401, REV 3 DATED 09-12-2008.
THE YAW DAMPER SERVO WAS MOUNTED AFT OF F.S 273.94 PER MANUFACTURER'S INSTALLATION MANUAL. THE YAW DAMPER AMPLIFIER UNIT WAS MOUNTED IN THE TAIL CONE DIRECTLY BELOW THE LEADING EDGE OF THE RUDDER TRIM TAB PER MANUFACTURER'S INSTALLATION MANUAL. ALL MODIFICATIONS ACCOMPLISHED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION MANUAL AND SUPPLIED DRAWINGS.
PERFORMED MAINTENANCE OPERATION CHECK (MOC).
PERFORMED EMI TESTING IN ACCORDANCE WITH AC 43.13-18 PARA, 11-107, INTERFERENCE TESTS
UPDATED AIRCRAFT EQUIPMENT LISTING
UPDATED AIRCRAFT WEIGHT AND BALANCE
POWER ASSESSMENT DONE IN ACCORDANCE WITH FAR REQUIREMENTS. POWER LOAD DOES NOT EXCEED 80% OF THE AIRCRAFT SYSTEM CAPACITY, DETERMINED BY CALCULATION
NOTES:
LOGBOOK ENTRIES MADE PER FAR REQUIREMENTS
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS, GARMIN GDL69ADATA LINK GARMIN GDL69/69A INSTRUCTIONS FOR CONTINUED AIRWORTHINESS MANUAL P/N: 190-00355-00 (LATEST REV). S-TEC YAW DAMPER SYSTEM INSTRUCTIONS FOR CONTINUED AIRWORTHINESS MANUAL P/N 81317 (LATEST REV).
ADDITIONAL SHEETS ARE ATTACHED

US Departmen of Transportation Federal Aviati Administration	AJOR REPAIR AN le, Powerplant, P		For Fax bas only							
INSTRUCT	FLONS: Print	ition of this	form. This report is rea						bsequent revision thereof) for esult in a civil penalty for each	
1. Aircraft	Nationality Make	/ and Regis / 4 / 4 /	tration Mark			Serial No. 4 / Model	'47	1-031	7 Series	
	6	1055	na			Model 414	ŀ A	-		
2. Owner	Name (As Bat	shown on the Nate	registration certificate) , Dawiel	R		n certificate) 2- ST, 				
		_		3	. For FAA Use	Only				
		r <del></del>					_		_	
4. Ty	r				5. Unit Identifica	ation			Out of No.	
Repair –	Repair Alteration Unit N				ike Mo					
		AIRFRAM	E			(As described in Item 1 above)				
		POWERP	LANT Contine	ntal I	Motors	TSIC	)-520	-NB	519264	
		PROPELL	ER							
		APPLIAN	Type CE Manufacturer							
A. Agency's	Name and A	ddress			Conformity Sta B. Kind of Agend					
Name <u>RAN</u>	I Aircraft, L		inership	_ [		ated Mechanic		M	anufacturer	
Address PO			State Texas	-  -		ificated Mechanic Repair Station			tificate No.	
zip <u>7670</u>		<sub>untry</sub> Unite		_		vlaintenance Organi	ization		me Class III, Powerplant Class I VA1R551K	
have b	oeen made ir	i accordanc	alteration made to the e with the requirements rrect to the best of my	s of Pr	art 43 of the U.S	em 5 above and 5. Federal Aviation	desc n Reg	ribed on the re julations and t	everse or attachments hereto hat the information	
Extended ra per 14 CFR App. B			Signature/Date of Aut			P	, ,	lain		
<u> </u>					roval for Return		X	Janera	_	
Pursuant Administra	to the auth ator of the Fe	ority given deral Aviatio		low,	the unit identif			nspected in f Rejected	the manner prescribed by the	
	AA Fit. Stan- hspector	dards	Manufacturer	Maintenance Organization Persons Approved by Canadian Department of Transport						
	AA Designer	∍ 🗸	Repair Station		Inspection Auth	orization	one	r (Specify)		
Certificate or Designation			Signature/Date of Aut	horize	ed Individual			0		
	VA1R551K Lawrence P. Garcia 10/05/2022 Journe P. Jarcis									

FAA Form 337 (10-06)

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
10/05/2022
Nationality and Registration Mark         Date           Engine modified to TSIO-520-NB 335 HP I/A/W RAM Dwg. 1778, Rev. L, dated 05/21/09 per STC SE09104SC-D (includes STC SE4327SW-D, Rev. 4).         Date
Engine modified for all operation power rating to 335 HP at 38" MAP and 2700 RPM per Dwg. 1186, Rev. AJ, dated 9/9/09. Modified in accordance with STC SE4327SW-D Rev. 4. Customer furnished with RAM Overhau! Manual Supplement, Operators Manual Supplement, and Parts Manual Supplement. See specific operating limitations in Aircraft Flight Manual or Supplemental Flight Manual.
Installed Kelly pressurized magnetos p/n ES6320 per Dwg. 1036, Rev. AB, dated 10/22/04 I/A/W STC SE4651SW-D and SE09104SC-D.
Installation mechanic must complete Block 1 and 2 on reverse side and mail one copy to the Federal Aviation Administration, Aircraft Registration Branch AFS-750, P.O. Box 25504, Oklahoma City, Oklahoma 73125.
Negligible weight and balance change.
Customer furnished with FAA approved Instructions for Continued Airworthiness for all alterations.
Pertinent details of the above installations are on file under Project No. 10271. End

Additional Sheets Are Attached

Image: Construction of Transportation Federal Aviation       MAJOR REPAIR AND ALTERATION       For FAA Use Only         Image: Construction of Transportation Federal Aviation       (Airframe, Powerplant, Propeller, or Appliance)       For FAA Use Only										Electronic Tracking Number For FAA Use Only	
Federal Aviation		·				<i>,</i> 11	,				
instructions		ition of this	form. This report is								sequent revision thereof) for uit in a civil penalty for each
Nationality and Registration Mark $\Lambda/4/4~M~P$					•	Serial No. 414A-0317					
1. Aircraft Make Ce35 N.Q						Model 41	4	A	Ş	Beries	
2. Owner			registration certifica 0qniel				Address (As s Address 30 City /V Zip 02	$\frac{1}{r\omega}$	11+, e11	Count	state MA
				_	3. F	or FAA Use	Only				
4. Ty	pe				5. L	Jnit Identific:	ation				
Repair	Alteration	Unit		Make Mod			del Serial No.				
		AIRFRAM	AIRFRAME			(As described in f			tem 1 a	above)	
	V	POWERP		ontine	enta	ntal TSIO-520			0-NB		514067
		PROPELL	.ER		_						
		APPLIAN	PLIANCE Manufacturer								
A. Agency's I	Nama and A	444444		_ 6	-	nformity Sta Kind of Agend					
	Name and A		tnership		Б.	÷	ated Mechanic			Man	ufacturer
	Karl May I			_						C. Certifi	
city Waco state Texas √ zp 76708 Country United States					Z		ated Repair Station Airframe Class III, Powerplant Class ated Maintenance Organization VA1R551K				
have b	een made in	accordanc	alteration made to t e with the requireme rrect to the best of n	ents of	Part	43 of the U.5	em 5 above and 5. Federal Aviatio	des n Re	cribed o gulation	on the reve as and the	erse or attachments hereto t the information
Extended range fuel per 14 CFR Part 43 App. B Lawrence P. Garcia 9-28-2022											
			Lawience P. Gan			val for Return		-1,	X	unic	
			persons specified on Administration an	below	-	e unit identit			inspect Rejecte		manner prescribed by the
	AA Flt. Stand spector	dards	Manufacturer		м	aintenance O	ganization			ns Approve tment of Tr	d by Canadian ansport
BY F	AA Designee	• 🗸	Repair Station		In	spection Auth	orization	Othe	er (Spe	cify)	
Certificate or Designation		<u>I</u>	Signature/Date of A	\uthori:	zed	Individual	1		~	9	
	/A1R551K		Lawrence P. Gai	rcia 9	9-28	-2022 🡌	lawen	ce	Q.	Dar	cia

FAA	Form	337	(10-06)
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Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished		
(If more space is required, attach additional sheets. Identify with aircraft national sheets.	onality and registration mark and date wo	ork completed.)
		9-28-2022
	Nationality and Registration Mark	Date
Engine modified to TSIO-520-NB 335 HP I/A/W RAM Dwg. 1778, Rev. SE4327SW-D, Rev. 4).	L, dated 05/21/09 per STC SE0910	4SC-D (includes STC
Engine modified for all operation power rating to 335 HP at 38" MAP at in accordance with STC SE4327SW-D Rev. 4. Customer furnished wit Supplement, and Parts Manual Supplement. See specific operating lim Manual.	h RAM Overhaul Manual Supplemer	nt, Operators Manual
Installed Kelly pressurized magnetos p/n ES6320 per Dwg, 036, Rev. / SE09104SC-D.	AB, dated 10/22/04 I/A/W STC SE46	51SW-D and
Installation mechanic must complete Block 1 and 2 on reverse side and Aircraft Registration Branch AFS-750, P.O. Box 25504, Oklahoma City		ion Administration,
Negligible weight and balance change.		
Customer furnished with FAA approved Instructions for Continued Airw	orthiness for all alterations.	
Pertinent details of the above installations are on file under Project No.	10271.	
END		

# N414MP

# Selected Airframe Log History. Complete Logs Are Available For Review.

# Included in this file:

- Notable entries from early history
- Copies of Airframe Logs from
   2013 refurbishment to present

YEAR:	RECORDING TACH TIME	TODAYS Flight	TOTAL TIME HI SERVICE	<b>Description of Inspections, Tests, Repairs an</b> Entries must be endorsed with Name, Rating and Certific Technician or Repair Facility. ( <i>See</i> back pages for other s	ite Number of 3	RECORDING TACH TIME HOBDS	TODAYS Flight	TOTAL TIME IN SERVICE	<b>Deecript</b> Entries mu Techniciar
DATE					5-18 0	2046.9		373.2	Remo
				Northwest Flyers Inc.					Rudder and al
	N414MP		S	Schaumburg Regional Airport		·	······································		follows
		rudder fo	repair due	meter-2022.9 Total time-3709.2 to wind damage.					channe Stin Pl
	Airmotive	W/O# 73	354.	nron to match aircraft after repair by Williams	· · · · · · · · · · · · · · · · ·				skinpli
	Painted ri	ght wing	ip to match	n aircraft. new <u>Gill G-246.</u>					Affect
			_	Steve Bilek A&P 320600103		ł			check
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				· · · · · · · ·					return
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	<u>l</u>	1	<u> </u>			I ·	&		See

I **Inspections, Tests, Repairs and Alterations** ndorsed with Name, Rating and Certificate Number of pair Facility. (*See* back pages for other specific entries.)

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rs Inc. al Airport Total time-3709.2 raft after repair by Williams

m aircraft.

\* A&P 320600103 ale

year:	RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. ( <i>See</i> back pages for other specific entries.)
DATE	Hobbs			
-18-04	2046.9		3733.2	Removed Rudder, Repaired Demoged
		<u>-</u>	L	Rudder by replacing broken rips, chennels
				and skins as required. Parts used as
				follows rib plu# 5133020-8, rib plu#5133000-
				channel plu# 5133020-9 channel Plu#5133020-11
				Stin Plat 5133020-5, skin plat 5133020-49, and
				skin plint 5133020-50, Repairs made in
				accordence with cessing service manual.
				Affected areas repainted and rudder
				checked for balance per cessna air treme
			<b> </b>	repair monuel. Balance within published
	1		<u>↓</u>	specifications. Rudder determined to be in
			<b>†</b> ·	airworthy condition and approved for
				return to service. Rudder reinstalled and trimme
SA.			<u>∔</u>	
			<u> </u>	Operational check OK. Using existing bude in
			L	See Attoched Form 337 for repuirs mede.
				See Attoched form 3st for repairs mede

### 2/17/92 N414MP S/N 414A0317 HM: 446.9 WO# 27364

LOG BOOK ENTRY FOR AIRCRAFT N414MP S/N 414A0317. REMOVED RIGHT MAIN GEAR DOOR AND INSTALLED NEW DOOR P/N 5127050-20, NEW HINGE HALF P/N 5127050-15, NEW DOOR TUBE (ROD) ASSY P/N 5141145-1 AND NEW HINGE PIN P/N MS20253-2. RIGGED DOOR AND PERFORMED LANDING GEAR RETRACTION TEST I/A/W CESSNA 414A MAINT MANUAL. REPLACED TAIL NAV LIGHT LENS P/N WA4513-1. REPAIRED RIGHT INBOARD AND OUTBOARD FLAPS BY REPLACING SKINS AND 2@ RIBS ON OUTBOARD FLAP AND 1@ RIB ON INBOARD FLAP. RE-PLACED OUTBOARD FLAP HINGE PIN. PERFORMED OPERATIONAL CHECK OF FLAP SYSTEM AND RIGGING CHECK PER CESSNA 414A MAINT MANUAL.PAINTED FLAPS AND GEAR DOOR TO MATCH AIRCRAFT. RIB P/N'S 0825000-17,0825000-84 AND 0825000-86.

> We groute alternate begins, propolier, appliance or companient identified divide was repaired and inspected in accordance with convert menufacturers instrictions and in accordance with Anistian Regulation Part 42, and is applied for roturn to service as per these requirements. With respect to With performed pertinent details of the mean are on file at this regain station contact Work Order No.

> > PHEBTER AVIATOP PHEBTER AVIATOP Philester Aviator Philester Aviator Philester Aviator

	INAFT			
Number of Filghts (27)		Hours May	(1) (2) (3) (3) (4)	Particular of the Contribution of the Contribu
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	MIXANSAS 72616	<u> </u>	Fall alt makes	
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Total Carried Forward				A

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s of all maintenance work s of all overhauls, repairs, s of any defects cocurring relevant entries in the s that in carrying out the done on the sircraft. septecements, modifications and mandatory inspections to the aircraft or its equipment. in the aircraft or its equipment and of the rectification of such defects including a reference september log. eventual, repair etc., all mandatory requirements applicable thereto have been complied with.

(5)

OLD HOUR MERER ACAR 1680.5 hrs. Add 5.8 hrs from Flight Log = 1686.3 hrs Total Time

46

12-15-89 Hobbs Reads 0000. ohrs. Total Airframe Time 1686. 3 hrs Completed Annual inspection using shop insp form as a guide Installed New Hobbs Hour Meter. Install ed New ELT Battery wITH EXP Date of 8-91. Replaced Central Vacuum Filter + Both Regulater filters. Reduced Both Hydraulic filters, Completed Pressure Delay Test on hearter Per AD 87-02-03, Cleaned and inspected BOTH engine Air Filters Per AD 84-26-02 Installed New Prop Deuge Timer S/ 1744. Replaced Seals in Nose STrutand Serviced with Nitrosen Teiproper Reap FT. AD's in compliance as applicable Thru 89-24. I CERTIFY THAT THIS AIRCRAFT, ENGINE HAS BEEN INSPECTAL M ADDODDANOS INTEL AND WAS DETERMINED NO IS WITH ARMONTHER CONDITION, WITH ECT TO THE WORK PEREDAMED, PERTUNCINT DETAILS OF THE WORK AND DE THE AT THIS AGENCY, UNDER WORK DEDER NO. 22 99 4:11 DATE 12-15-89 loren 

THA APPROVED REPAIR STATION (III), 4505

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### TETAL Deec YEAR: TUBAYS TETAL TERAYS **Description of Inspections, Tests, Repairs and Alter** TEAL nic ( TACH FLIGHT THE H Entries mu TAGE **FLIGHT** Entries must be endorsed with Name, Rating and Certificate Number THE SERVICE THE SERVICE Techniciar Technician or Repair Facility. (See back pages for other specific entries 2004 Hobbs DATE DATE Remo 2046.9 373.2 5-18-04 Rudder Northwest Flyers Inc. and st Schaumburg Regional Airport follows N414MP Date-9/11/2003 Hour meter-2022.9 Total time-3709.2 channe Removed rudder for repair due to wind damage. stin P Painted rudder with Dupont Imron to match aircraft after repair by Williams Airmotive W/O# 7354. skinp Balanced rudder per Cessna MM and installed on aircraft. . . . . accord Painted right wing tip to match aircraft. Asser Replaced aircraft battery with new Gill G-246. Steve Bilek A&P 320600103 check - Bill reprin spec: airwa relia Open See

## inepections, Tests, Repairs and Alterations ndoreed with Name, Rating and Certificate Number of pair Facility. (See back pages for other specific entries.)

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s Inc.	
al Airport	
Total time-37	19.2
aft after repair b	y Williams
n aircraft.	
k A&P 32060010	13

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1004	NECORDING TACH TUNE	TBBAYS Plight	TUTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. ( <i>See</i> back pages for other specific entries.)
BATE	Hobbs			
18.04	2046.9		3733.2	Removed Rudder. Repaired Domoged
		-		Rudder by replacing broken rips, chennels
2			Į	and skins as required. Parts used as
				Gllows rib plat 5133020-8, rib plat 5132000-
				channel plu# 5133000.9 channel plu#5133020-1
				stin Plat 5133020-5, shin plat 5133020-49, and
			† 	skin pln# 5133020-50, Repairs mede in
			1	accordence with cessing service manual.
				Affected areas repainted and rudder
				checked for balance per cessna gir frame
			t	repair mennel. Belence within published
14.2				specifications. Rydder determined to be in
			† · ·	
	1.		+	airworthy condition and approved for return to service. Rudder reinstalled and trimme
			<b>+</b>	Operational check ok using existing herde or
				Den A Hay & 18020 makes 1
		672		See Attached Form 337 for repairs made,
		S. Surday		See Artochica form sor for requirs made,

### 2/17/92 N414MP S/N 414A0317 HM: 446.9 WO# 27364

LOG BOOK ENTRY FOR AIRCRAFT N414MP S/N 414A0317. REMOVED RIGHT MAIN GEAR DOOR AND INSTALLED NEW DOOR P/N 5127050-20, NEW HINGE HALF P/N 5127050-15, NEW DOOR TUBE (ROD) ASSY P/N 5141145-1 AND NEW HINGE PIN P/N MS20253-2. RIGGED DOOR AND PERFORMED LANDING GEAR RETRACTION TEST I/A/W CESSNA 414A MAINT MANUAL. REPLACED TAIL NAV LIGHT LENS P/N WA4513-1. REPAIRED RIGHT INBOARD AND OUTBOARD FLAPS BY REPLACING SKINS AND 2@ RIBS ON OUTBOARD FLAP AND 1@ RIB ON INBOARD FLAP. RE-PLACED OUTBOARD FLAP HINGE PIN. PERFORMED OPERATIONAL CHECK OF FLAP SYSTEM AND RIGGING CHECK PER CESSNA 414A MAINT MANUAL.PAINTED FLAPS AND GEAR DOOR TO MATCH AIRCRAFT. RIB P/N'S 0825000-17,0825000-84 AND 0825000-86.

> Ne dennit, difficue bagine, propolier, appliance or component identified differe was repaired and inspected in accordance with current meandrectures instrictions and is accordance with Aristian Requision Part 43, and is applied for return to service as per these requisionments. With respect to differ performed pertinent datalle of the repair are on file at this repair station under Work Order No.

> > PRIESTER AVIATION RIR 246H

2/17/92 N414MP S/N 414A0317 HM: 446.9 WO# 27364

LOG BOOK ENTRY FOR AIRCRAFT N414MP S/N 414A0317. REMOVED RIGHT MAIN GEAR DOOR AND INSTALLED NEW DOOR P/N 5127050-20, NEW HINGE HALF P/N 5127050-15, NEW DOOR TUBE (ROD) ASSY P/N 5141145-1 AND NEW HINGE PIN P/N MS20253-2. RIGGED DOOR AND PERFORMED LANDING GEAR RETRACTION TEST 1/A/W CESSNA 414A MAINT MANUAL. REPLACED TAIL NAV LIGHT LENS P/N WA4513-1. REPAIRED RIGHT INBOARD AND OUTBOARD FLAPS BY REPLACING SKINS AND 2@ RIBS ON OUTBOARD FLAP AND 1@ RIB ON INBOARD FLAP. RE-PLACED OUTBOARD FLAP HINGE PIN. PERFORMED OPERATIONAL CHECK OF FLAP SYSTEM AND RIGGING CHECK PER CESSNA 414A MAINT MANUAL.PAINTED PLAPS AND GEAR DOOR TO MATCH AIRCRAFT. RIB P/N'S 0825000-17,0825000-84 AND 0825000-86.

> The general, although, degite, property, appleace or compared identified dictors uses repaired and inspected in accordance with current mendecturers institutions and in accordance with Aviation Regulation Part 43, and is applied for roturn to service as per these requirements. Web respect to diffe performed pertinent details of the generic are on file at dist repair station under Work Order No.

PRIESTER AVIATIO" II PRIN 246H Wheeling, II.

46 maintenance work get the alroreft. OLD HOUR MERTA Real 1680.5 hrs. Add mente, modifications and mandatory indpections to the alternit or its equipment. overhaute, repairs, and the second state and and the restitution of such delects including a reference nacuming tog. 5.8 hrs From Flight Log = 1686.3 hrs Total Time antries - In the 43 rapple etc., all mendatory requiremations applicable therete have been complied with. o minina out the (5) -15-29 Hobbs Reades 0000. ohrs. Total Airframe Time 1686. 3 hrs ampleted Annual inspection using shop map form as a guide Mailed Den Hobbs Hour METER INSTall ad New ELT Battery wITH EXP Tto of 8-91. Replaced Contral Yas un filter + Bath Begulater filters. thered both machine fisters, Compared pressure Decay Fast on hearter AD 87-02-03 - Geber and Instrate Contra Proving Per AD 84-26-02 to a balance in the second second in more struttant Talled New Meriles and with with and a subord to brought a bas the to be the set and the set constinues as applicable till is slit on one want out to clister fissione 89-24 5

TOTAL TIME IN	Current Weight and Balance Information							
SERVICE	Empty Weight	Empty C.G.	Useful Load	Remarks				
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		TIMEIN	TIME IN Service	TIME IN Service	TIME IN Service			

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1	TOTAL FIME IN	Current Weig	ht and Balance	Information		
5	SERVICE	Empty Weight	Empty C.G.	Lieoful Lood	Domarke	
					SAFE C	_
			Northwest I	lyers Inc.		
			Schaumburg Re	gional Airport		
]	N414M	P				-
]	Date-8/3	30/02 Hobbs ti	me-1951.9			-*
]	Replaced	nose tire. Installed	new Goodyear l	Flight Custom III 6	00x6 6 ply	
	-	•		ments P/N BA-22	1	
		existing fuel flow			4	-
]	Installed	Shadin Company	Inc. Fuel flow in	dication system LA	W Shadin Co. Report	-
	No. 4026					1
		per Supplemental	Type Certificate	SA577GL		
		1 Submitted	1			F
1	ops Chee	ked OK. No leaks			000107	-
			Ste	ve Bilek A&P 320	1600103	
			- SA	E lieles		
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YEAR:	RECORDING TODA TACH FLIGH TIME		<b>Description of Inspections, Tests, Repairs and A</b> Entries must be endorsed with Name, Rating and Cerlificate Technician or Repair Facility. ( <i>See</i> back pages for other spec	Number of	R: RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN Service	<b>Description of Inspections, Tests, Repairs and Alte</b> Entries must be endorsed with Name, Rating and Certificate Num Technician or Repair Facility. ( <i>See</i> back pages for other specific	nber of
DATE		1	1		TE	,			
	C100615 & C0 Charging syster Serviced all tire Serviced all lan Removed GEM Reinstalled GE Corp. Ops Che Secured loose of Removed inop. APS-16368. Op Cleaned and "d	d right voltag w Electrosyst 70542. Set up n ops checked s with air. ling gear stru- engine monit M 1200 Displ ked OK. abin door step left wing tip s s checked Ol- ressed" all sur-	ge regulators. tems, Inc. Voltage Regulators P/N VR286, Ser.#'s p regulators IAW Electrosystems Paralleling Procedure. d OK. the with nitrogen only. tor from instrument panel for repair. lay Unit Ser.# 1769 after repair by Insight Instrument p treads with adhesive. strobe light assy. Installed Overhauled light assy. Ser.#		Remove 910532 Remove (P/N M Replace Checked Remove reinstall Replace Stop dri Replace pipe. Replace	7/07/200 cd Shadin P, ser.# 4 cd fuel sun S29513-0 d <u>ELT B</u> d <u>ELT IA</u> d drain the ed. d left and lled crack d lower m d bolts fo	fuel flow i 620) after mp drain fi 008) Re-ins attery P/N W FAR 9 ibe for right right indu a in right en nount supp r exhaust <sup>4</sup>	Northwest Flyers Inc. Schaumburg Regional Airport Aur meter-2008.5 Total time-3694.8 indicator, for repair. Reinstalled fuel flow indicator (P/N repair by Shadin Inc. W/O# 07080307. Ops checked OK. Tom right wing. Installed new sump valve seal stalled valve. Ops checked OK, no leaks noted. N 00-60-62 New battery exp. Date-Aug. 2005. 1.207d. Checked OK. In turbo waste gate drain. Re-flared tubing end and uction filter elements P/N BA-22. meine baffle at #2 cyl. ort clamp (P/N 2265C400SS) for right turbo overboard "ball joint" on left engine, right exhaust pipe. ine exhaust slip joint heat shield. <i>Continued on next page</i>	

	RECORDING TACH         TODAYS         TOTAL         Description of Inspections, Tests, Repairs and Alterations           TIME         TIME IN SERVICE         Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)						RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alteratic</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries
-						DATE				
+			>	Continued from previous page					>	>Continued from previous page
+				parator cover loose. Adjusted and secured cap. No leaks			Replace	xd outer s	eal (P/N M d at loft and	1S29513-330) on left and right wing fuel filler caps. d right wing fuel filler ports.
+	noted at	ter engine	e run up. atallad nov	w wire harness channel on left engine, right side.			- Replace	d mounti	ing bracket	t for right main landing gear up-lock hook.
	Padrical	ioned alar	istaned nev	haust slip joint on right side of left engine to prevent			Replace	d bleeder	PN 081.0	200 and bleeder screw P/N 079-00300, on right brake
Т	clamps :	from chai	fing in nac	elle skin			caliner	Rieed bi	rake system	n. Serviced left and right brake reservoir with MIL 5606.
t	Remove	d exhaus	t stack rise	er for #3 cyl on left engine. Reinstalled overhauled stack			Stop dr	illed crac	ks in left w	ving tip.
Ŧ	assy fro	m Dawle	ev Aviation	n W/O# 80268.			Renlace	ed left and	d right vacu	uum regulator, garter filters.
	Renaire	d hole in	left engine	induction air filter cover by installing a patch IAW			Remove	ed corros	ion from ba	attery posts. Serviced battery cells with distilled water.
Τ	AC43;1						Remov	ed light co	orrosion fro	om upper fuselage, fwd of windshield. Treated with
t	Relamp	ed right v	ving nav lig	ght (P/N W692) Ops checked OK.			Alodine	e and pair	nted area.	
Ļ	Replace	d left aft,	nose bagg	gage door extender assy (P/N 5311330-4)			Replace	ed belly d	rain seal w	vith new P/N CM3575-4, between left & right A.C.
	Vacuum	ned debris	s from nose	e baggage area.			– evapora	itors.		
Γ	Tighten	ed and sa	ftied V-ban	nd clamp for heater distributor duct in nose.						bottom of pilots seat. Ops checked OK.
t				om leading edge of right horizontal stab, aft of deicer					ed flap mot	
1	boot. Ti	eated are	a and pain	ited.			Secure	l loose co	pilots head	d set jack.
				t aft, seat trim covers.			Adjuste	d rigging	g of mixture	e controls to match lever positions.
T				wing root lower fairing.	1		Replac	ea ien ny	Graune fille	er (AN6235 and seals MS287750222) right fuel strainer bowls (MS29513-237)
t	Re-seale	ed right f	rewall at v	wire pass through area.			Keplac	ed seals I	or left and	Continued on next page>
				Continued on next page>			-			Contrainer ou new bage.

TACH	RECORDING TACH TIMETODAYS FLIGHTTOTAL TIME IN SERVICEDescription of Inspections, Tests, Repairs and Entries must be endorsed with Name, Rating and Certificate Technician or Repair Facility. (See back pages for other spectrum)			Number of	RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. ( <i>See</i> back pages for other specific entries.)
DATE TIME	eplaced fwd lei 20125-03. All ( ecured loose tr e-painted lowe emoved corros anel. eplaced right f djusted VSI to pressed edge of epositioned an	service sft hand, mid r Ops checked ( im for left C.I er wing access sion from upper fuel selector known be zero. f lower rudder d trimmed can senger seat mon AD's-2000-01	Technician or Repair Facility. (See back pages for other specified and right aft cabin reading light switches P/N OK. B panel in cockpit. panels where needed. er panel at leading edge of right stub wing. Repainted	DATE	N414N Date-O I certij	07/ <mark>07/2</mark> 0 fy that th	olog H his aircraft	

YEAR: DATE	RECORDING TACH TIME	TACH FLIGHT TIME IN Entries must be endorsed with Name, Rating and Certificate Number		<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. ( <i>See</i> back pages for other specific entries.)	YEAR: 2004 Date	RECORDING TACH TIME HOBOS	TODAYS Flight	TOTAL TIME IN Service	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. ( <i>See</i> back pages for other specific entries.)
	Painted ruc Airmotive Balanced r Painted rig	l/2003 udder for ider with W/O# 73 udder per ht wing ti	S Hour repair due Dupont Im 54. Cessna M p to match	Northwest Flyers Inc.	5-18-04	2046.9		3733.2	Removed Rudder Repaired Demayed Rudder by replacing broken rips, chennels and skins as required. Parts used as follows rib plat 5133020-8, rib plats133020-18 channel plat 5133020-9, channel plats133020-18 skin plat 5133020-5, skin platt 5133020-49, and skin plat 5133020-50, Repairs made in accordance with cessna service manual. Affected areas repainted and rudder checked for balance per cessna air frame repair manual. Balance within published specifications. Rudder determined to be in airworthy condition and sporoued for return to service. Rudder reinstalled and trimmed Operational check ok. Using existing bardware Mawned Homoly AEP 319 584571 See Attoched Form 337 for repairs mede.

YEAR:	RECORDING TACH TIMETODAYS FLIGHTTOTAL TIME IN SERVICEDescription of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)					: RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alteration</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. ( <i>See</i> back pages for other specific entries.
DATE					DAT				
				thwest Flyers 🛥		-			
		Schaum	burg Region	nal Airport. Schaumburg, Illinois					
N414M	IP	Н	lobbs=205	52.8hrs. ACTT=3739.1hrs.		-			mlock fasteners on nose access panels
	8-11-04							ne fuel fil	
Checke	ed ELT pe	r FAR 9	91.207d.(E	Battery due Aug. 2005)					m LT. and RT. nacelles.
ompi	led with A	D96-20	-07 by pre	essure decay and nessure switch chooks					cker light. Geod Falt bulls
eriori	aea by RI	B Acce	ssoies W(	D#4448.OK at this time					flood light bulbs.
ombr	ed with hy	vdrotest	and over	haul of landing gear nitrogen bottle			icated ai		aft fuselage and horizontal stabilizer.
112210	1104-3 DIN.	1890Y.(	Due retest	t 07-2009)					001-17-13,200-01-16,96-20-07,95-24-05R1,and
cepiac	ed L1. and	I RT. er	igine indu	action air filter elements PN#BA-22.					list for details)
retract	tested lan	iding ge	ar and gr	eased all wheel hearings			-02-07.(		
anlag	d new Gill	#246 81	rcraft bat	ttery.		Lcert	ify that	this aircr	raft has heen inspected in accordance ap Annual
enlace	d hydroli	vacuum	tilter and	d regulator filters.		Inspe	ction an	d has bee	en determined to be in airworthy condition at this
engine	d njudshi	old also	and airco	onditioning hydrolic filter.		time.			Cone Scheuwimer a //
ensire	d and nai	eiu alco	nai leak a	at reservoir tank.					A&P1680919IA
enaire	d and hib	ricated	• wing tip	bin seats.					A&P1680919IA 100 Alaman
-pane	o and idu	inaicu	several ca	idin seats.					0 11

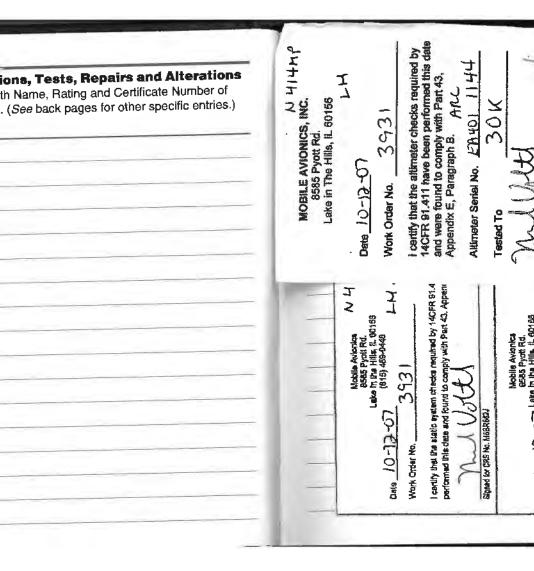
**Description of Inspections, Tests, Repairs and Alterations** RECORDING | TODAYS | TOTAL YEAR: nber of Z4255 Cutter Aviation Deer Valley, Inc. Work Order No. 414A Model entries.) 2082.7 Hour Meter Serial No. 414A0317 530 West Deer Valley Road Phoenix Arizona 85027 N414MP Registration D. FAA Repair Station No. W45R045O Replaced oxygen service inlet valve with new unit p/n C166011-0101, leak and operational check good. Date: 1/24/05 Signed: Model 414A Cutter Aviation Deer Valley, Inc. Work Order No. 7.4322 Serial No. 414A0317 530 West Deer Valley Road Hour Meter 2085.4 Registration N414MP Phoenix Arizona 85027 FAA Repair Station No. W45R045O Replaced aircraft battery with new unit G-246 s/n G02147976, serviced and charged. Reinstalled in aircraft, operational check good. Signed: Date: 2/28/2005 414A Cutter Aviation Deer Valley, Inc. Work Order No. 7.4379 Model Serial No. 530 West Deer Valley Road 414A0317 N414MP Phoenix Arizona 85027 Total Time 2089.21 Registration FAA Repair Station No. W45R045O Resoldered broken wire at left hand tach cannon plug. Ground ran and ops check good. As Date: 04/12/2005 ned 

YEAR:	RECORDING TACH TIME	TODAY\$ FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alt</b> Entries must be endorsed with Name, Rating and Certificate Nu Technician or Repair Facility. (See back pages for other specific	mber o	nber of		
DATE								
_				Northwest Flyers		-		
			Schaum	burg Regional Airport Schaumburg Illinois		-		
	- N414	4MP		Cessna 414A SN#0307				
	- Date	08-16-0	5	Hobbs = 2099.5hrs ACTT=3785.8hrs				
_	Chec	ked ELT	per FAR	91.207d.(Replaced battery.Due 08-2007)				
			-	and regulator C166001-0817 SN# 812655 after hydro-				
			-	Global Products WO#139342. (Serviced oxygen)	3	Ŧ		
				ngs and left main tire.		-		
	-			uction air filters PN# BA-22.				
				ing and landing gear. Retract tested landing gear.				
				ng light assembly #72914-0148 SN# 64105 after repair		-		
				vice WO#5467				
_				ing pressure switch with new PN#9910287-11 and				
				ng hydraulic system.				
				bes PN#2853.		-		
				gage door extender with new PN# 5311330-5.		-		
				seat adjustment controls.				
		Irea seve	trai capin.					

	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and A</b> Entries must be endorsed with Name, Rating and Certificate f Technician or Repair Facility. ( <i>See</i> back pages for other spec	lumber of fic entries.)		Northwest Flyers						
DATE		_			DATE	N414MP	Schaunburg Regional Airport Schaumburg Illinois Cessna 414A SN#0307	_					
Clea Repl Com Com	aned engin laced left nplied with nplied with nplied with	e fuel fi engine p h AD76- h AD96- h AD20	lters. oropeller d -02-07 by -24-05 by 000-01-16	Page 2 trobe light wiring. eice brush block assy. #C40179 inspection of left. Alternator bearing. visual inspection of Lt.and Rt. propellers. parts (b),(c),(d),(e),and(f). by inspection and pressure test of heater valve.		(Left SN# EB60) Installed 2ea. D- Installation was r	Hobbs = 2099. 7hrs. w Hartzell PHC-C3YF-2UF/FC7693DFB propellers. 76B,Right SN# EB6075B) 7267-2P spinner and bulkhead assemblies. made per RAM STC SA9971SC and Hartzell installation flight manual for performance and weight and balance Gene Scheuwimer A&P1680919	· · ·					
AD9		Float va	lve inspec	ction) due at 2125 hobbs.									
I cer	rtify that th	nis aircra	aft has bee en determi	en inspected in accordance with an Annual ined to be in airworthy condition at this time.									
				P1680919IA									

YEAR:	RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN Service	Entries must be endorse	ections, Tests, Repairs and Alterations ed with Name, Rating and Certificate Number of cility. (See back pages for other specific entries.)	DATE March 17, 2000 T.T. H.M. 2099.8 TACH		LOG BOOK ENTRY AERO MOD SERVICE MIDLAND,TX	REG.# MFG MODEL S/N	N414MP Ceusna 414A 414A0317
DATE	Date 12-5-05 (316) 488-2448 LH JPH Wark Cross No. 3340 I cardiy that the static patient chiecta required by 1407R 81.411 have been	perterment of the calle are to comply with Part 43, Appended B, Para 4.	Moble Antenlae Bage Pool Rd. Date 12-5-05 Lake in the Hills, IL ED186 Work Order No. 3340	1 aartify thail the ATO transportden tesi and inespeciants required by 1402FA 91.413 were performed livis dela and found to camply with 1405FR 43, Aspendid F. 4 J Maia BENUIX Tremporter Bata No. 37.1 S MM UTA	Machine Avience accel Province Class <u>12-5-05</u> Wank Crafor No	Balance checked prig	Matterhorn White Lt. Burgundy Charcoal Gray Mary flight controls I 5. FAA FAR 25.853 flam AlRCRA FOR TH STATIO	<pre>med, and painted the following colors: Jet Glo Acry Glo Acry Glo #/A/W MM. Installed exterior decals after the proofing certificate on file at this a MAINTENANCE RELEASE. FT APPROVED FOR RETURN TO SERVICE ONLY IF WORK PERFORMED DETAILS ON FILE THIS NON WO.#COTO DE DATE 3177/06 AERO MOD SERVICE MIDLAND, TEXAS 79711 ATURE &amp; A&amp;P# 1954 TO 1954 TO</pre>	,	

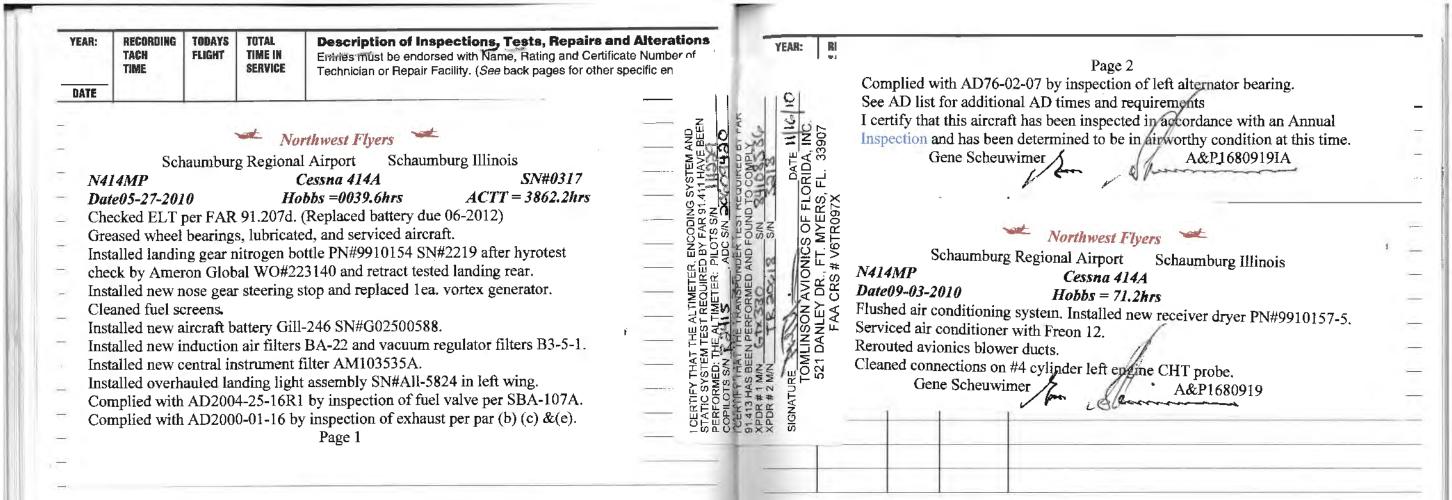
YEAR:	RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and A</b> Entries must be endorsed with Name, Rating and Certificate Technician or Repair Facility. (See back pages for other spec	NUMBERON	RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN Service	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. ( <i>See</i> back pages for other specific entries.)
- Dat - Cha - Cha - Gree - Rej - Ins - Re - Re - Sea - Co - Co - Co	14MP te09-28-06 ecked ELT eased all wh paired broke placed #4 c stalled new 1 placed alco placed left rviced oxyg omplied with	per FAF neel bear en wires yl. CHT left and hol tank and righ en. h AD200 h AD200 h AD200	rg Regiona Ho 2 91.207d. rings, lubri in left tac probe on f right induc filler cap t vacuum r 05-20-25 b 04-25-16 000-01-16	Airport Schaumburg Illinois Cessna 414A SN#0317 bbs = 2105.1hrs ACTT = 3791.4hrs (Battery due 08-2008) cated, and serviced aircraft hometer generator cannon plug. right engine. tion air filters BA-22. with new S1015. regulator filters. by inspection. Avionics C/B (DNA by PN) R1 by inspection of heater fuel shut off valve. by inspection of left and right engine exhaust		Comp See A	lied with D list fo	h AD95-09 r additionation	Page 2 2-07 by inspection of left alternator bearings. 9-13 by pressure test of fuel float vales. (Due 2705hrs) al AD times and requirements. It has been inspected in accordance with an Annual determined to be in airworthy condition at this time. Gene Scheuwimer A&P1680919IA
				Page 1					



YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Entries must be endorsed with	ons, Tests, Repairs and Alterations h Name, Rating and Certificate Number of (See back pages for other specific entries.)	YEAR:	RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN Service	<b>Description of Inspections, Tests, Repairs and Alterat</b> Entries must be endorsed with Name, Rating and Certificate Numbe Technician or Repair Facility. ( <i>See</i> back pages for other specific ent	erof
DATE						DATE					
							0.1	. 1 . 1	100004	Page 2	
			-	N d L Flores			Compl	ied with	AD2004-	-25-16R1 by inspection of fuel regulator valve.	_
				Northwest Flyers		-	Compl	ied with	AD200-0	01-16 by inspection of left and right exhaust systems	_
		Schaumt	ourg Regio		rg Illinois			: (b),(c),			
	N414MP			Cessna 414A	SN#0317		Compl	ied with	AD76-02	2-07 by inspection of left alternator bearings.	
	Date10-18-0			Hobbs = 0000	ACTT = 3822.6hrs		See AL	) list for	additiona	al AD times and requirements.	
	Replaced ho	bbs met	er = 000.0	). $(ACTT = 3822.6hrs)$			I certify	y that thi	s aircraft	has been inspected in accordance with ar Annual	
	Checked EL	T per F.	AR 91.207	7d.(Replaced battery. due 0	9-2009)		Inspect	tion and	has been (	determined to be in airworthy condition at this time.	-
	Greased all	wheel be	earings, lu	bricated, and serviced aircr	aft.			Gene	Scheuwin	ner A&P1680919IA	*
				placed right main tire, and	nose wheel bearings.				1	for Altonomin	-
	Installed new										
	Replaced ce	ntral vac	cuum filte	r and vacuum regulator filt	ers.						_
	Installed lef	t landing	g light asso	embly after repair by RLB	Accessories WO7519					i mana and in the second s	
				cyl. exhaust pipes repaired	by Aerospace					Northwest Flyers	
	welding WC							Scha	umburg F	Regional Airport Schaumburg Illinois	
	Cleaned bat	tery box	and charg	ged aircraft battery.			N414M	Р		Cessna 414A	
	Replaced #2	and #4	cyl. EGT	prtobes PN#2870.			Date05-			Hobbs = 1.8hrs	
· · -	Complied w	rith AD2	2004-21-0	5 by pressure check of heat	er and air switch by		Installed	d overha	uled co pi	ilot directional gyro PM#4000B-12 SN#29987C.	_
	RLB Access						Replace	d #4 and	#5 cylind	der CHT probes.	÷ —
				Page 1					e Scheuw		

AR:	RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN Service	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)	YEAR:	RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN Service	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. ( <i>See</i> back pages for other specific entries.)
			WAUK	EGAN AVIONICS	DATE			_	
	N414MP	CESSNA	A 414A S/I	414A0317 WO#13188 JULY 25, 2008					Northwest Flyers
			40 S/N 784 9711842 STEV	ber Garmin S.B. 0808 REV. B. into existing GNS         05104 and GNS 430W P/N 011-01060-40 S/N         8. Function test O.K.         EN J. GOODWIN         Jocclub         S#WOGR619k		Date Che Gree Inst Mic Ret	<i>14MP</i> <i>te03-26-</i> ecked El eased wh talled lef dAmeric ract testa	09 LT per FA leel bearin it and right a Jet Worl ed landing	urg Regional AirportSchaumburg IllinoisCessna 414ASN#0317Hobbs = 13.1hrsACTT = 3835.7hrsR 91.207d.(battery due 09-2009)ugs, lubricated, and serviced aircraft.t main landing gear retract cylinders after reseal byks WO#11581-MX.(Lt SN#C1144, Rt. SN#C1662)gear and serviced nose strut.debiald IN00100400 0 SN06145110265 are SIM401 110 to
						Inst Cor Inst repa Inst Rep	talled Lt mponent talled PN air by Ao talled ne placed re	and Rt. ex s WOs #2 Is 991029 erospace V w Lt. and ceiver dry	Adshield PN9910049-9 SN06145H9365 per SK421-119A khaust waste-gates after overhaul by Approved Turbo 28311(Lt.YI033852)& #28312(Rt. IE0205) 9-9, 9910377-1, and 9910299-10 exhaust pipes after Welding WOs 122830, 122831, and 122240. RT. induction air filter elements BA-22. Yer, repaired several leaks and serviced air conditioner. Dattery box. Serviced and charged aircraft battery. Page 1

YEAR:	RECORDING TACH TIMETODAYS FLIGHTTOTAL TIME IN SERVICEDescription of Inspections, Tests, Repairs and A Entries must be endorsed with Name, Rating and Certificate I Technician or Repair Facility. (See back pages for other special 	Number of	YEAR: DATE	<ul> <li>Paige E. Bartz</li> <li>FAA Certified Repairman</li> <li>FAA Repair S</li> <li>G6XF</li> </ul>
	Page 2 Installed oxygen bottle C6600-0817 SN#812655 after hydro test. Complied with AD2004-25-16R1 by inspection of shutoff valve per SB107A Complied with AD2004-21-05 by pressure check of heater by RLB Accessories WO#9129.(Heater hobbs=352.1hrs) Complied with AD200-01-16 by inspection per par (b), (c), and (e). Complied with AD76-02-07 by inspection of left alternator bearing. See AD list for additional AD times and requirements. I certify that this aircraft has been inspected to accordance with an Annual Inspection and has been determined to be in airworthy condition at this time. Gene Scheuwimer Accordance with an Annual Inspection and has been determined to be in airworthy condition at this time. Gene Scheuwimer Accordance with an Annual Inspection and has been determined to be in airworthy condition at this time. I certify that this aircraft has been inspected to accordance with an Annual Inspection and has been determined to be in airworthy condition at this time. Gene Scheuwimer Accordance with an Annual I certify that this aircraft has been determined to be in airworthy condition at this time. I certify that this aircraft has been determined to be in airworthy condition at this time. I certify that this aircraft has been determined to be in airworthy condition at this time. I certify that this aircraft has been determined to be in airworthy condition at this time. I certify that this aircraft has been determined to be in airworthy condition at this time. I certify that this aircraft has been determined to be in airworthy condition at this time. I certify that this aircraft has been determined to be in airworthy condition at this time. I certify that this aircraft has been determined to be in airworthy condition at this time. I certify that this aircraft has been determined to be in airworthy certify that this aircraft has been determined to be in airworthy certify that this aircraft has been determined to be in airworthy certify that this aircraft has been determined to be in ai		MH1HW NIChics NUCLES	Warranty In       * All repaired or replaced GARMIN units have a 90-day was warranty from the original purchase date, whictever is long       FRM-098 REV. I



#### Switlik Aviation Maintenance, Inc.

Page Field Airport (FMY) 207 Danley Drive Fort Myers, Florida 33907 239-936-3666 www.switikaviation.com



YEAR:

DATE

Date	Reg. Number	Airframe S/N	Hour mwter	 <u>م</u> دينة.	 
03/28/2011	N414MP	414A-0317	114,5	 where y	 

Replaced air conditioner condenser blower relay with MS24166-D2. Replaced air conditioner temperature control rheostat with S3495-2.5K. Service with R-12 freon.

Hour mwter

. 117.1

John. Rich

04/26/2011

John A Richardson 262536133 A&P

## Switlik Aviation Maintenance, Inc.

Page Field Airport (FMY) 207 Danley Drive Fort Myers, Florida 33907 239-936-3666 www.switlikaviation.com Date Reg. Number Airframe S/N

N414MP

Lob Q. Rigo

Replaced air conditioner condenser blower motor with 9910155-1 s/n 709.

414A-0317

John A Richardson 262536133 A&P

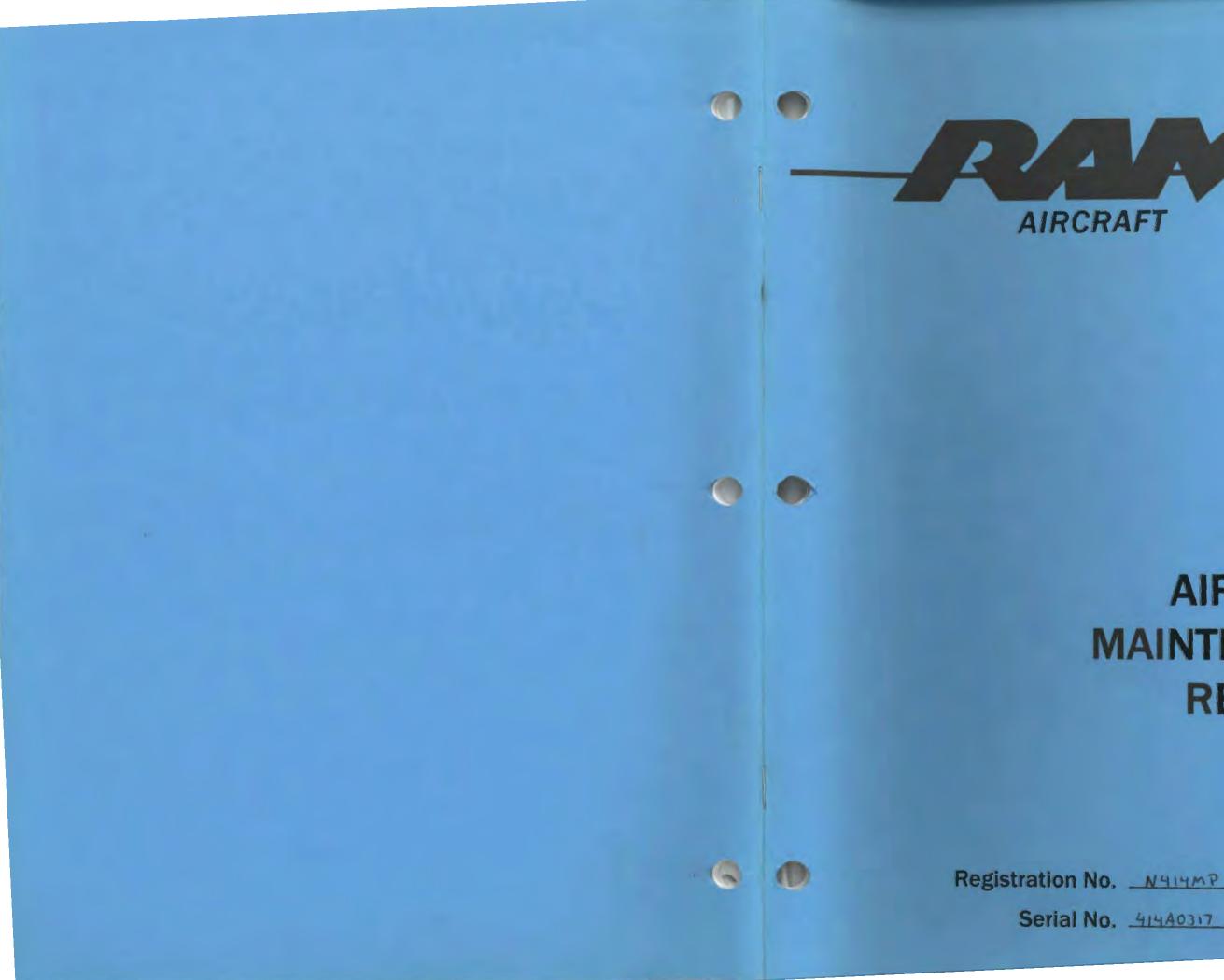
Northwest Flyers TAC Schaumburg Regional Airport Schaumburg Illinois TIM N414MP Cessna 414A SN# 0317 Date06-21-2011 Hobbs 124.5hrs ACTT = 3947.1 hrsChecked ELT per FAR 91.207d. (Battery due 06-2012) Retract tested landing gear Greased wheel bearings, lubricated, and serviced aircraft. Cleaned main fuel filters and heater fuel filter. Installed new Lt. & Rt. BA-22 induction air filter elements. Reinstalled heater B4050 SN#479131 after repair by RLB Accessory Service WO# 11312. Installed overhauled vacuum pump 442CW SN#144249 on right engine. Checked and charged aircraft battery. Complied with AD2004-25-16R1 by inspection of fuel valve per SBA-107A. Complied with AD2004-21-05 by pressure check of heater. Complied with AD200-01-16 by inspection of exhaust per par (b) (c)&(e). Complied with AD76-02-07 by inspection of Lt. alternator bearing. Page 1 Page 2

See AD list for additional AD times and requirements. I certify that this aircraft has been inspected inaccordance with an Annual Inspection and has been determined to be in airworthy condition at this time. Gene Scheuwimer

YEAR: RECORDING TODAYS TOTAL **Description of Inspections, Tests, Repairs and Alterations Description of Inspections, Tests, Repairs and Alterations** TOTAL YEAR: RECORDING TODAYS TIME IN TACH FLIGHT TIME IN Entries must be endorsed with Name, Rating and Certificate Number of TACH FLIGHT Entries must be endorsed with Name, Rating and Certificate Number of SERVICE TIME TIME SERVICE Technician or Repair Facility. (See back pages for other specific entries.) Technician or Repair Facility. (See back pages for other specific entries.) DATE DATE 호철 4 2 Error 00 3 Mobile Avionics, Inc. 1 Aircraft Type C414 Reg. No. N414MP Ser. No. 41440 527. Date 8-26-11 W.O. No. 4929 8585 Pvott Road Lake in the Hills, IL 60156 **I5BR662J** 40.000 D H H 20.000 23.000 30.000 35.000 (815) 459-0446 609 16.000 18.000 -A/C Time Hobbs -132.7 kd. 1L 60156 CRS M5BR662J Ś 0 REINSTANCE & TESTED #1 TRANSPONDER (GAR-330) TEST DAW 91.413 ON FILE UNDER WO # 4929 MEL MOBILE ANIMICS MEL MSBR 6625 പ്പ 0000000000 Error  $\overline{\mathcal{O}}$ MOBILE / 8585 10.000 12.000 Altimeter Order 8.000 6.000 2.000 3.000 4.000 1.500 1.000 000.1 Reads 200 Vork Mobile Avianics 9585 Pypit Rd. Deto <u>§-26-</u> Peto <u>8-26</u> 10:the Hills, il 80158 certify that d.413 wen ppeadix F. tete S Work Order No. \_\_\_\_\_4929 Date Date Mork On Mork On Certify a Derivement dei dei i certify that the ATC transponder test and inspections required by 14CFR 91.413 were performed this date and found to comply with 140FR 43. #1 Appendix F. Transponder ON V Make GARIEN W Model GTX 330 84109534 Sarial No.

YEAR:	RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alte</b> Entries must be endorsed with Name, Rating and Certificate Nur Technician or Repair Facility. (See back pages for other specific	mber of	RECORDING Tach Time	TODAYS Flight	TOTAL TIME IN Service	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. ( <i>See</i> back pages for other specific entries.)
- Dat Che Gre - Rep - Ret Inst - Cle - Che - Che Inst Rep Inst	14MP te08-20-201 ecked ELT eased wheel placed Lt an ract tested 1 talled new 1 talled new 1 talled new 0 eaned main ecked and c talled new 0 placed tail n talled landi essory Serv	2 per FAR bearing d RT br anding BA-22 in central in fuel filte harged a CHT pro- avigation ng light rice WO	g Regiona Ho 91.207d. s, lubricat ake discs gear. nduction a strument ers and the aircraft bat obe on Lt e on and left assembly #12065.	Cessna 414ASN# 0317bbs = 155.3hrsACTT = 3977.9hrs(Replaced battery due 06-2014)ed, and serviced aircraft.and all brake linings.	RE IN PJ	Com Com See A I cert Inspe	uplied wi uplied wi AD list f tify that ection an Gene onics of Fl 6-Novemb N 4140317 SI KI525A ERFORMED F EST. WT A	th AD200 th AD76- or additio this aircra d has bee Scheuwi orida, Inc. er-2010 CESSNA SYSTEM. IN FER STC#SA02 ND BALANCE	521 DANLEY DRIVE FORT MYERS, FL 33907 V6TR097X         414A         Pg 1/1         NSTALLED GARMIN G600 PFD/MFD.         2153LA-D.         ALSO PERFORMED         UPDATE PERFORMED THIS DATE         IIIIGDOOD

EAR:	RECORDING TACH TIME	TODAYS Flight	TOTAL TIME IN SERVICE	Entries must be end	orsed with Name, I	sts, Repairs and Alte Rating and Certificate Num & pages for other specific o	ber of entries.)	RECORDING TACH Time	TODAYS Flight	TOTAL TIME IN Service	<b>Description of Inspections, Tests, Repairs and Alteration</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
DATE					_		DATE				
	-	N#	414MP	thern Avionics & ( CRS HW Mobile Down 2495-A Michigan Aven WO#	4R427M Itown Airport ue 7 Mobile, AL 360 94068	615 09.12.2012					This Los OI
		Updated G6	600 LRU's G		RS-77 SW to3.02 a	and GDC-74 SW to 3.08	++				CLOSEN
				eight and alance require		erational requirements.					
		George Technician		2614474 27M	 	Kin MAL					





AIRFRAME MAINTENANCE RECORDS

Page No	<u>Advanced</u> <u>Aircraft</u>	_	Page No	Southern Avionics & C 2495-A Michiga Mobile, Al 30
DATE	<u>Refinishers</u>		DATE	FAA RS# HW4
	125 Sky Harbor Way Griffin GA 30224 770-233-4600 Date April 5,2013	-06		Date: 6/21/2013; Aircraft: N414MP; Type: CE 4028.30 Shop Order #: 95195
	<ol> <li>Removed and replaced upper rudder skin (pn 5133020-50), and channel (pn 5133020- 18). These repairs are on FAA form 337 dated 4/4/2013.</li> <li>All work accomplished in accordance with Cessna 414a service manual and advisory circular 43,13-1b ch 4-57a and 4-57f.</li> </ol>			Removed and disassembled circuit breaker pa throttle quadrant panel out to be refurbished b circiut breaker panels. Designed and fabricate Fabricated new avionics circuit breaker panel. and clear coated. All legends and labels were Reinstalled panels in the aircraft.
	Clifford Stopen			Technician: D. Joiner Inspector:
	Clifford O'Hearn A&P 2640972 -			Southern Avionics & C 2495-A Michiga Mobile, Al 36
	<u>Advanced</u> <u>Aircraft</u> <u>Refinishers</u>			FAA RS# HW4F Date: 6/21/2013; Aircraft: N414MP; Type: CES
	125 Sky Harbor Way Griffin GA 30224 770-233-4600 Date April 5,2013	-	-	4028.30 Shop Order #: 95194 Removed post lights for instruments in pilot, ce installed UMA light rings for instruments. Prov 700-28. The UMA lights were installed using n
	<ol> <li>Removed and replaced upper rudder skin (pn 5133020-50), and channel (pn 5133020- 18). These repairs are on FAA form 337 dated 4/4/2013.</li> </ol>			Technician: D. Joiner Inspector:
	All work accomplished in accordance with Cessna 414a service manual and advisory circular 43.13-1b ch 4-57a and 4-57f.	_		Southern Avionics & C
	coffeed Store	_		2495-A Michig Mobile, Al 30 FAA RS# HW4
	Clifford O'Hearn A&P 2640972	_		Date: 6/21/2013; Aircraft: N414MP; Type: CE 4028.30 Shop Order #: 95244
	AIRCRAFT CESSNA 414 A SERIAL NO. 7414 AO317 REGISTRATION NO. N414MP TIME 0207.1	-		Removed existing ELT and ELT antenna. Pro Compact ELT P/N S1840501-01, S/N LX1100 S/N 10693 in same location as removed units. Panel P/N S18020513-11, S/N TM000004581 were completed using Kannad Installation Mat October 2011. Weight and Balance/Equipment
	THE REFURBISHED AIRCRAFT INTERIOR COMPONENTS IDENTIFIED HAVE BEEN REPAIRED AND INSPECTED FOR THE WORK PERFORMED, IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AGENCY AND IS APPROVED FOR RETURN TO SERVICE.	-0		Tested and inspected ELT as listed in accorda procedures and FAR 91.207d. ELT approved i June 2014. Next battery replacement date: No
	"Pertinent details of the repair are on file at this repair station under Work Order No			Technician: D. Joiner Inspector:
	Signed. Jay (1) 120, authorized representative for SOUTHERN AIR CUSTOM INTERIORS, INC. FAA CERTIFIED REPAIR STATION NO. UUSR697L, 711 County Road 51, Haleyville, AL. 35565			TOTALS

### Communications

an Ave 6615 IR427M

SSNA 414A; S/N: 414A0317; Total Time:

/ORK

anels and throttle quadrant panel. Sent by Air Capitol Dial. Refurbished pilot side ted new lower panel below throttle quadrant. All panels were powdercoated federal gray e silkscreened onto the new panels.

Jull

### communications

an Ave 6615 R427M

SSNA 414A: S/N: 414A0317; Total Time:

enter and copilot panels. Provided and ided and installed 3 UMA inverters P/N 10nanufacturers supplied documentation.

Inlee.

Communications

jan Ave 6615 1R427M

SSNA 414A; S/N: 414A0317; Total Time:

ovided and installed Kannad 406(AF) 0054426 and ELT antenaa P/N LET10-773-3, s. Provided and installed ELT Remote Control 16 in copilot's panel. Wiring and checkout anual p/n DOC07089G, Revision 06, dated nt list has been amended.

ance with manufacturer's approved inspection for return to service. Next inspection date: lovember 2019.

Juld

Carry forward to next page

#### aviation@tiac.net

Date: 4/22/2013

-

Make; Cessna Registration N414MP

Model 414A S/N; 414-A0317

This aircraft was painted and all flight controls were removed balance checked and reinstaticd. All work accomptished 1/A/W Cessna Model 414 service manual and applicable FARs

Terry Lee Higdon A&P 2713082



125 Sky Harbor Way, Griffin, Georgia (770) 233-4000

Base Color: G8003 Matterhorn White/ Alumigrip Trim colors: 10494 Las Vegas Gold / AcryGlo 10701 Ruby Met / AcryGlo 10508 Med Silver Met / AcryGlo

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e No 2495	cs & Communications		Page No	Southern Avionics & 1 2495-A Michig
	bile, Al 36615 RS# HW4R427M	:	DATE	Mobile, Al 3 FAA RS# HW
Date: 6/21/2013; Aircraft: N414MP; 4028.30 Shop Order #: 95193	Type: CESSNA 414A; S/N: 414A0317; Total Time:			Date: 6/21/2013; Aircraft: N414MP; Type: Cl 4028.30 Shop Order #: 95188
to facilitate new avionics installation. aluminum. Panels were powder coat silkscreened onto the panels. Installe flight.	o-pilot panels. Designed and fabricated new panels Panels were fabricated using 2024T3 .0900 ted federal gray and all legends and placards were ed new panels into aircraft. Reassembled aircraft for			Removed #2 GNS 430W. Provided and insta 011-02282-00, S/N 1ZA0011798, GA-35 Ante splitter P/N FSC-2-1, S/N BN121201247. Th with Garmin Installation Manual P/N 190-010 antenna was installed in accordance with Stro N414MP-050213-1. The GTN 750 is interfac 350 audio panel, fuel flow, GWX 70 Radar ar
				337 filed and Weight & Balance/Equipment li Technician: D. Joiner Inspector:
2495- Mol	<b>cs &amp; Communications</b> -A Michigan Ave bile, Al 36615 RS# HW4R427M			Southern Avionics &
Date: 6/21/2013; Aircraft: N414MP; 4028.30 Shop Order #: 95185	Type: CESSNA 414A; S/N: 414A0317; Total Time:	_		2495-A Michie Mobile, Al 3 FAA RS# HW
P/N 011-02385-00, S/N 1UF005534. 330ES transponder, #1 GTN 750, #2 intercom. Wiring and checkout were	Provided and installed Garmin GMA 350 audio panel The GMA 350 is interfaced to the GAD 43E, GTX GTN 750, G600 System, 55X autopilot, and 6 place completed using Garmin Installation Manual p/n 190	- 01		Date: 6/21/2013; Aircraft: N414MP; Type: Cl 4028.30 Shop Order #: 95189 Removed Garmin GTX 330 transponder and
amended.	y 2013. Weight & Balance/Equipment list has been			upgrade. Installed upgraded Garmin GTX 33 84108536. The GTX 330ES is interfaced to 74 AHRS, GDU 620 PFD/MFD, and #2 GTX completed using Garmin Installation Manual 2013. FAA Form 337 filed and Weight & Bala
	ics & Communications 5-A Michigan Ave		<u> </u>	Technician: D. Joiner Inspector:
	obile, Al 36615 RS# HW4R427M			Southern Avionics & 2495-A Michie
Date: 6/21/2013; Aircraft: N414MP; 4028.30 Shop Order #: 95187	; Type: CESSNA 414A; S/N: 414A0317; Total Time:			Mobile, Al 3 FAA RS# HW
750 Nav/Com/GPS_P/N 011-02282 -00, S/N 94853 and diplexer P/N CI	GPS antenna. Provided and installed Garmin GTN 2-00, S/N 1ZA0011788, GA-35 Antenna P/N 013-0023 -507, S/N419963. The GTN 750 system is installed in			Date: 6/21/2013; Aircraft: N414MP; Type: Cl 4028.30 Shop Order #: 95190
The GA-35 antenna was installed in Drawing number N414MP-051013-	Manual P/N 190-01007-A3, Rev 5, Dated April 2013. accordance with Strong Aerospace Engineering 1. The GTN 750 is interfaced to the G600 System, #2 el flow and the GTX330ES Transponder. FAA Form uipment list has been amended.	- 01		Removed existing #2 transponder and SSD1 GTX 327 transponder P/N 011-00490-00, S/I installed transponder antenna P/N CI-105, S/ #2 GTN 750, GDU 620 PFD/MFD, and #1 GT were completed using Garmin Installation Ma March 2012. Weight & Balance/Equipment Ii
Technician: D. Joiner Inspecto	- grothed			Technician: D. Joinet Inspector:
тот	rALS—Carry forward to next page		L	TOTALS-C

Pag

### Communications

igan Ave 36615 V4R427M

ESSNA 414A; S/N: 414A0317; Total Time:

3K

talled Garmin GTN 750 Nav/Com/GPS P/N tenna P/N 013-00235-00, S/N 94831 and he GTN 750 system is installed in accordance 007-A3, Rev 5, Dated April 2013. The GA-35 rong Aerospace Engineering Drawing number iced to the G600 System, #1 GTN 750, GMA and the GTX330ES Transponder. FAA Form list has been amended.

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Communications

iigan Ave 36615 V4R427M

CESSNA 414A; S/N: 414A0317; Total Time:

d sent unit to Garmin for Extended Squitter 30ES transponder P/N 011-00455-60, S/N the GMA 350 audio panel, #1 GTN 750, GDC 327 transponder. Wiring and checkout were p/n 190-00734-10, Revision 2, dated April ance/Equipment list has been amended.

Thee

### Communications

igan Ave 36615 V4R427M

ESSNA 414A; S/N: 414A0317; Total Time:

120 encoder. Provided and installed Garmin /N 83747129 in the #2 position. Provided and /N 61548. The GTX 327 is interfaced to the TX 330ES transponder. Wiring and checkout anual p/n 190-00187-02, Revision Q, dated list has been amended.

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Page No	Southern Avionics & Communications					
l ugo mo.	2495-A Michigan Ave		-	Page No.	Southorn	Avionics & C
DATE	Mobile, Al 36615 FAA RS# HW4R427M				Southern	2495-A Michiga
	FAA R5# HVV4R42/M	JRK		DATE		Mobile, Al 36
	Date: 6/21/2013; Aircraft: N414MP; Type: CESSNA 414A; S/N: 414A0317; Total Time: 4028.30		03			FAA RS# HW4F
	Shop Order #: 95216				Date: 6/21/2013; Aircraf 4028.30	t: N414MP; Type: CES
	Removed defective LC2. Provided and installed new LC2 chronometer P/N /a/t420100, S/N 66724 in same location as removed unit. This unit was functionally checked and found operational IAW MFG's Manual.				Shop Order #: 95197	
	Technician: D. Joiner Inspector <u>floother</u>				Removed Glareshield fro glareshield and added ad Glareshield in aircraft. Al	ccent trim covering to t
	Production				Technician: D. Joiner	Inspector:
	Southern Avionics & Communications					0
	2495-A Michigan Ave Mobile, Al 36615 FAA RS# HW4R427M				Southern	Avionics & C 2495-A Michiga
	Date: 6/21/2013; Aircraft: N414MP; Type: CESSNA 414A; S/N: 414A0317; Total Time:					Mobile, Al 36 FAA RS# HW4R
	4028.30 Shop Order #: 95287				Date: 7/15/2013; Aircraft 4028.30	t: N414MP; Type: CES
	Provided and installed Garmin GAD 43E interface adapter P/N 011-02349-00, S/N 1U7000669. The GAD 43E is interfaced to the GRS 77 AHRS, GDU 620 PFD/MFD, GMA				Shop Order #: 95196	
	350 audio panel and system 55X autopilot. Wiring and checkout were completed using Garmin Installation Manual p/n 190-00601-06, Revision K, dated October 2012. Weight and Balance/Equipment list has been amended.		~ ~		Removed yokes from air Reinstalled yokes in airco operational IAW MFG's I	aft All switches and t
	Technician: D. Joiner Inspector: frosheel		15 3		Technician: D. Joiner	Inspector
	Southern Avionics & Communications					
	2495-A Michigan Ave				Southern	Avionics & C
	Mobile, AI 36615					2495-A Michiga
	FAA RS# HW4R427M					Mobile, Al 366 FAA RS# HW4R
	Date: 6/21/2013; Aircraft: N414MP; Type: CESSNA 414A; S/N: 414A0317; Total Time: 4028.30				Date: 7/15/2013; Aircraft	· NATAME: Type: CES
	Shop Order #: 95200				4028.30 Shop Order #: 95198	. N414Mir, Type. CEO
1	Provided and installed 28VDC to 12VDC converter P/N AD-551-9M, S/N 512559. Interface to 1 aux power port in the cockpit center console and 2 aux power ports in cabin					water - Drevided and
	area, one on each side. Provided and installed switch and circuit breakers in copilot's				Removed existing radars array P/N 117-00254-01,	
	circuit breaker panel. Wiring and checkout were completed using Ameri-King Installation				GWX 70 is interfaced to t	he #2 GTN 750 for dis
	Manual p/n IM-551, Revision NC, dated February 1999.		1000		heading. Wiring and che -00829-01, Revision C, d	
	Technician: D. Joiner Inspector: <u>Jug July</u>				been amended.	
			•		Technician: D. Joiner	Inspector Ahod
			03			
	SUB-TOTALS this page					SUB-TOTAL
	TOTALS-Carry forward to next page			1		TOTALS-C
						IVIALS-C

#### Communications

jan Ave 36615 4R427M

ESSNA 414A; S/N: 414A0317; Total Time:

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d existing Glareshied covering. Recovered b bottom side of glareshield. Reinstalled t this location.

9 Jules

### Communications

an Ave 6615 1R427M

SSNA 414A; S/N: 414A0317; Total Time:

AeroPlus Interiors to be covered in leather. I buttons were functionally checked and found Reassembled aircraft for flight.

Ofueld

#### Communications

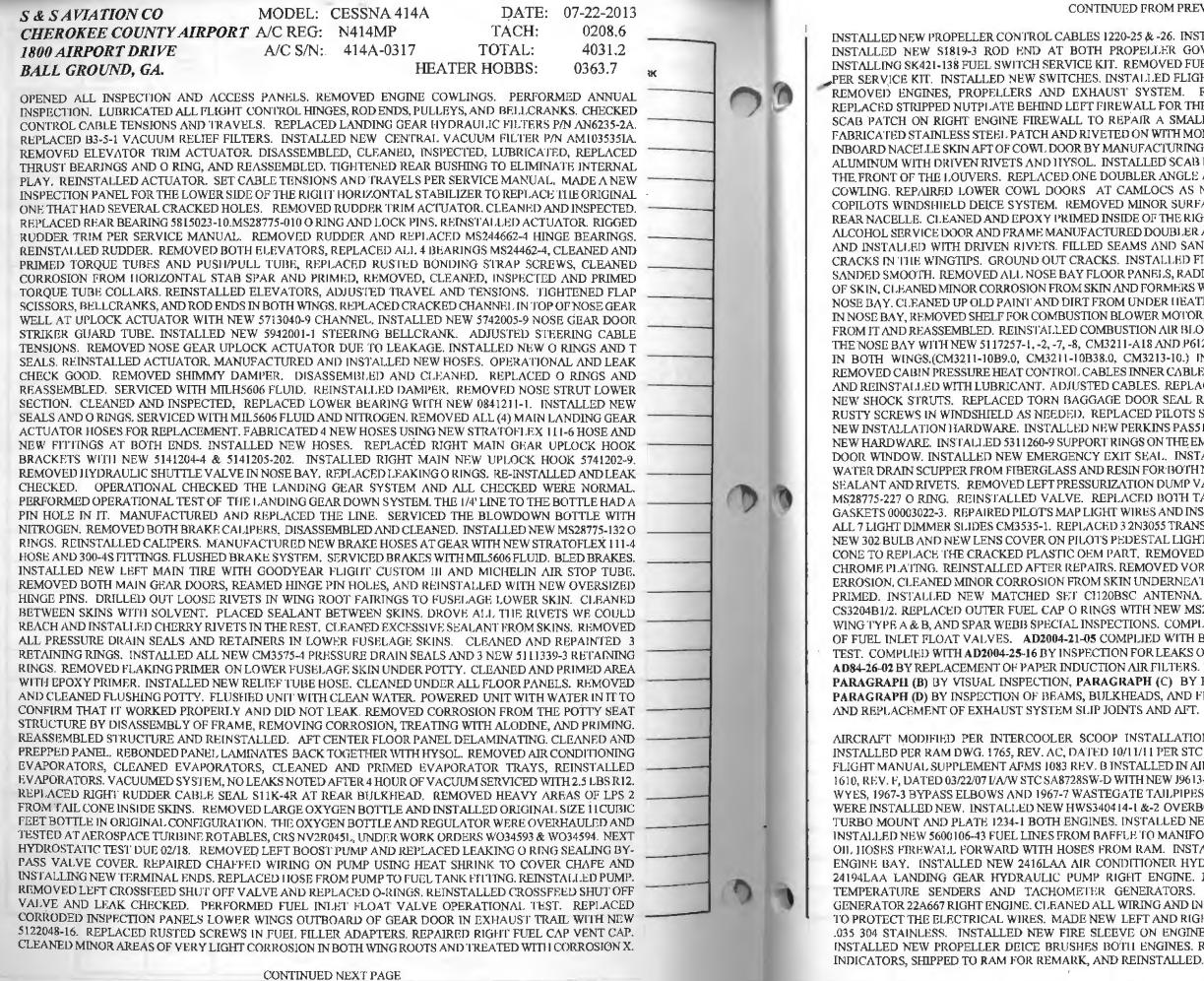
an Ave 6615 R427M

SSNA 414A; S/N- 114A0317; Total Time:

d installed GarminGWX 70 12 inch antenna P/N 011-01793-00 S/N 1DP005089. The lisplay and control, and the GRS 77 for d using Garmin Installation Manual p/n 190 Weight and Balance/Equipment list has

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#### CONTINUED FROM PREVIOUS PAGE

INSTALLED NEW PROPELLER CONTROL CABLES 1220-25 & -26. INSTALLED NEW LEFT THROTTLE CABLE 1220-21. INSTALLED NEW S1819-3 ROD END AT BOTH PROPELLER GOVERNORS. COMPLIED WITH MEB88-3 BY INSTALLING SK421-138 FUEL SWITCH SERVICE KIT. REMOVED FUEL PRESSURE SWITCHES, MODIFIED WIRING PER SERVICE KIT. INSTALLED NEW SWITCHES. INSTALLED FLIGHT MANUAL SUPPLEMENT AND PLACARDS. REMOVED ENGINES, PROPELLERS AND EXHAUST SYSTEM. REMOVED MICRO VORTEX GENERATORS. REPLACED STRIPPED NUTPLATE BEHIND LEFT FIREWALL FOR THE TAILPIPE SUPPORT BRACKET. INSTALLED SCAB PATCH ON RIGHT ENGINE FIREWALL TO REPAIR A SMALL CRACK UNDER THE TAILPIPE BRACKET. FABRICATED STAINLESS STEEL PATCH AND RIVETED ON WITH MONEL RIVETS. REPAIRED HOLE WORN IN LEFT INBOARD NACELLE SKIN AFT OF COWL DOOR BY MANUFACTURING AND INSTALLING A PATCH FROM .040 2024T3 ALUMINUM WITH DRIVEN RIVETS AND HYSOL. INSTALLED SCAB PATCHES ON INSIDES OF TOP COWLINGS AT THE FRONT OF THE LOUVERS. REPLACED ONE DOUBLER ANGLE AT THE AFT TOP END OF THE TOP THE LEFT COWLING, REPAIRED LOWER COWL DOORS AT CAMLOCS AS NEEDED. REMOVED ALCOHOL TANK AND COPILOTS WINDSHIELD DEICE SYSTEM. REMOVED MINOR SURFACE CORROSION INSIDE AND OUT SIDE OF REAR NACELLE, CLEANED AND EPOXY PRIMED INSIDE OF THE RIGHT BAGGAGE COMPARTMENT. DRILLED OFF ALCOHOL SERVICE DOOR AND FRAME MANUFACTURED DOUBLER AND FILLER PATCH FROM 2024T3 ALUMINUM AND INSTALLED WITH DRIVEN RIVETS. FILLED SEAMS AND SANDED SMOOTH. REPAIRED SEVERAL SMALL CRACKS IN THE WINGTIPS, GROUND OUT CRACKS, INSTALLED FIBERGLASS REPAIR MATERIAL, FILLED AND SANDED SMOOTH. REMOVED ALL NOSE BAY FLOOR PANELS, RADIOS, NOSE CONE IN ORDER TO ACCESS INSIDE OF SKIN, CLEANED MINOR CORROSION FROM SKIN AND FORMERS WHERE THE PILOTS HEAT DUCT CROSSES THE NOSE BAY, CLEANED UP OLD PAINT AND DIRT FROM UNDER HEATER AND PLENUM AND FROM BEHIND DUCTS IN NOSE BAY, REMOVED SHELF FOR COMBUSTION BLOWER MOTOR, DISASSEMBLED AND CLEANED CORROSION FROM IT AND REASSEMBLED. REINSTALLED COMBUSTION AIR BLOWER, REPLACED PRESSURIZATION DUCTS IN THE NOSE BAY WITH NEW 5117257-1, -2, -7, -8, CM3211-A18 AND P612433. REPLACE ALL PRESSURIZATION DUCTS IN BOTH WINGS.(CM3211-10B9.0, CM3211-10B38.0, CM3213-10.) INSTALLED NEW CLAMPS AS NECESSARY. REMOVED CABIN PRESSURE HEAT CONTROL CABLES INNER CABLES FROM BOTH CONTROLS. CLEANED CABLES AND REINSTALLED WITH LUBRICANT. ADJUSTED CABLES. REPLACED BOTH BAGGAGE DOOR SUPPORTS WITH NEW SHOCK STRUTS, REPLACED TORN BAGGAGE DOOR SEAL RIGHT WING LOCKER WITH NEW. REPLACE RUSTY SCREWS IN WINDSHIELD AS NEEDED. REPLACED PILOTS SIDE WINDOW WITH NEW PAS5111605-3 AND NEW INSTALLATION HARDWARE. INSTALLED NEW PERKINS PASS111605-2 WINDOW IN EMERGENCY EXIT WITH NEW HARDWARE. INSTALLED 5311260-9 SUPPORT RINGS ON THE EMERGENCY EXIT WINDOW AND UPPER CABIN DOOR WINDOW. INSTALLED NEW EMERGENCY EXIT SEAL. INSTALLED NEW MEDCO LOCK SET. MADE NEW WATER DRAIN SCUPPER FROM FIBERGLASS AND RESIN FOR BOTH NACELLES. INSTALLED NEW SCUPPERS WITH SEALANT AND RIVETS. REMOVED LEFT PRESSURIZATION DUMP VALVE. REPLACED BROKEN O RING WITH NEW MS28775-227 O RING. REINSTALLED VALVE. REPLACED BOTH TAIL FLOOD LIGHT LENS 00003022-3 &-5 AND GASKETS 00003022-3. REPAIRED PILOT'S MAP LIGHT WIRES AND INSTALLED NEW \$1880-5 RHEOSTAT. REPLACED ALL 7 LIGHT DIMMER SLIDES CM3535-1. REPLACED 3 2N3055 TRANSISTORS, REPLACED 3 327 BULBS. INSTALLED NEW 302 BULB AND NEW LENS COVER ON PILOTS PEDESTAL LIGHT. INSTALLED NEW 1041-8 FIBERGLASS TAIL CONE TO REPLACE THE CRACKED PLASTIC OEM PART. REMOVED AND SHIPPED BOTH PITOT TUBES OUT FOR CHROME PLATING. REINSTALLED AFTER REPAIRS. REMOVED VOR/GS ANTENNA DUE TO DELAMINATION AND ERROSION, CLEANED MINOR CORROSION FROM SKIN UNDERNEATH ANTENNA. TREATED WITH ALODINE AND PRIMED, INSTALLED NEW MATCHED SET CH20BSC ANTENNA. SEALED AROUND THE ANTENNA WITH CS3204B1/2. REPLACED OUTER FUEL CAP O RINGS WITH NEW MS29513-338. PERFORMED CABIN TYPE A & B, WING TYPE A & B, AND SPAR WEBB SPECIAL INSPECTIONS. COMPLIED WITH AD95-09-13 BY OPERATIONAL TEST OF FUEL INLET FLOAT VALVES, AD2004-21-05 COMPLIED WITH BY HEATER PRESSURE DECAY AND SWITCH TEST. COMPLIED WITH AD2004-25-16 BY INSPECTION FOR LEAKS OF HEATER FUEL SHUTOFF. COMPLIED WITH AD84-26-02 BY REPLACEMENT OF PAPER INDUCTION AIR FILTERS. COMPLIED WITH AD2000-01-16 AS FOLLOWS: PARAGRAPH (B) BY VISUAL INSPECTION, PARAGRAPH (C) BY REPLACEMENT OF OVERBOARD TAILPIPES, PARAGRAPH (D) BY INSPECTION OF BEAMS, BULKHEADS, AND FIREWALLS, PARAGRAPH (G) BY REMOVAL

AIRCRAFT MODIFIED PER INTERCOOLER SCOOP INSTALLATION, STRUCTURAL CHANGES AND ENGINES INSTALLED PER RAM DWG. 1765, REV. AC, DATED 10/11/11 PER STC SA09105SC-D (INCLUDES STC SA8728SW-D). FLIGHT MANUAL SUPPLEMENT AFMS 1083 REV. B INSTALLED IN AIRCRAFT, ENGINES INSTALLED PER RAM DWG 1610, REV. F. DATED 03/22/07 I/A/W STC SA8728SW-D WITH NEW J9613-58 ENGINE MOUNTS. INSTALLED NEW 1967-1 WYES, 1967-3 BYPASS ELBOWS AND 1967-7 WASTEGATE TAILPIPES. EXHAUST ELBOWS PART# 9910299-15 & -16 WERE INSTALLED NEW. INSTALLED NEW HWS340414-1 &-2 OVERBOARD TAILPIPES. INSTALLED NEW RAM TOP TURBO MOUNT AND PLATE 1234-1 BOTH ENGINES. INSTALLED NEW AN833 STEEL FITTINGS IN WASTEGATES. INSTALLED NEW 5600106-43 FUEL LINES FROM BAFFLE TO MANIFOLD. INSTALLED ALL NEW ENGINE FUEL AND OIL HOSES FIREWALL FORWARD WITH HOSES FROM RAM. INSTALLED NEW VACUUM AND DEICE HOSES IN ENGINE BAY. INSTALLED NEW 2416LAA AIR CONDITIONER HYDRAULIC PUMP. INSTALLED OVERHAULED 24194LAA LANDING GEAR HYDRAULIC PUMP RIGHT ENGINE. INSTALLED NEW CANNON PLUGS ON OIL TEMPERATURE SENDERS AND TACHOMETER GENERATORS. INSTALLED OVERHAULED TACHOMETER GENERATOR 22A667 RIGHT ENGINE, CLEANED ALL WIRING AND INSTALLED VARGLASS PROTECTIVE COATING TO PROTECT THE ELECTRICAL WIRES. MADE NEW LEFT AND RIGHT ENGINE WIRE BUNDLE RETAINERS FROM .035 304 STAINLESS. INSTALLED NEW FIRE SLEEVE ON ENGINE CONTROL CABLES INSIDE ENGINE BAYS. INSTALLED NEW PROPELLER DEICE BRUSHES BOTH ENGINES. REMOVED ENGINE GAUGES AND AIRSPEED

CONTINUED NEXT PAGE

Page No.

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INSTALLED RAM VORTEX GENERATORS AND STRAKES PER DWG. 1507, REV. H, DATED 4/15/04 WITH FLIGHT 12/1/2013 N414MP MANUAL SUPPLEMENT AFMS 1083 FURNISHED WITH CHANGE IN AIRSPEED MARKINGS I/A/W STC SA8125SW-D. INSTALLED SHADIN FUEL FLOW INDICATING SYSTEM PER DWG. 1078 REV. Z, DATED 08/25/06 I/A/W STC SA5796SW-D. INSTALLED FLOSCAN FUEL FLOW TRANSDUCERS PER DWG. 1083, REV. S, DATED 09/05/06 I/A/W STC SE5726SW-D, INSTALLED MCCAULEY MC-1 SYNCHROPHASER SYSTEM PER DWG, 1406, REV. N. DATED 08/28/03 installed equipment as guides. 1/A/W STC \$A8728SW-D. INSTALLED HARTZELL SCIMITARPLUS PROPELLERS MODEL PHC-C3YF-2UF PER DWG. 2549, REV. D, DATED 07/21/05 I/A/W STC SA09971SC-D. FLIGHT MANUAL SUPPLEMENT AFMS 1096 DATED MAY 16. 2002 INSTALLED IN AIRCRAFT, NOTE, 78 INCH DIAMETER PROPEULER APPROVED PER RAM DWG1765 REV. AC. ring at the bottom of the strut. IAW SA09105SC-D AND RAM DWG 1610, REV.F IAW SA8728SW-D. INSTALLED AIRCRAFT PERFORMANCE MODIFICATIONS EXTERNAL AFT BODY STRAKES IN ACCORDANCE WITH AIRCRAFT PERFORMANCE MODIFICATIONS STC SA01935LA PER DRAWING NO. G3-050504-001, REV J, DATED 12/31/09. INSTRUCTIONS FOR CONTINUED AIRWORTHINESS, DOCUMENT G3-050504-008, REV E, DATED 02/15/12 ATTACHED TO AIRCRAFT RECORDS. EQUIPMENT LIST UPDATED. THERE IS NO FLIGHT MANUAL SUPPLEMENT FOR THIS MODIFICATION. INSTALLED SPOILERS INC. SPOILER SYSTEM IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS SP4000 AND 9) R+R existing cabin table lighter socket 12volt power sockets with new units that work. MASTER DRAWING LIST SP4000, BOTH DATED MARCH 29, 1990. THIS INSTALLATION WAS ACCOMPLISHED PER SPOILERS INC. STC SA4913NM. SPOILERS INC INSPECTION GUIDE AND MAINTENANCE SUPPLEMENT ATTACHED TO AIRCRAFT DOCUMENTS. FAA APPROVED FLIGHT MANUAL SUPPLEMENT ADDED TO FLIGHT MANUAL. 45.11(e). EQUIPMENT LIST UPDATED. INSTALLED BCN AEROSPACE, INC. AIRSTAIR DOOR SAVER ACCORDING TO DRAWING LIST 10033, REVISION H, DATED 04/29/85. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH BCN AEROSPACE, INC. STC SA2440SW. EQUIPMENT LIST WAS UPDATED, ICA IS NOT REQUIRED FOR THIS INSTALLATION. REMOVED INSIGHT 1200 GEM AND ASSOCIATED WIRING. INSTALLED J. P. INSTRUMENTS EDM 760 TWIN TEMPERATURE INDICATING SYSTEM IN ACCORDANCE WITH J. P. INSTRUMENTS INSTALLATION MANUAL REPORT NO. 760, REV NC, DATED 07/20/99. THIS INSTALLATION WAS ACCOMPLISHED IN ACCORDANCE WITH J. P. INSTRUMENTS STC SA00729SE. FLIGHT MANUAL SUPPLEMENT NO. 760-1 WAS ADDED TO THE FLIGHT MANUAL. EQUIPMENT LIST UPDATED. ICA IS NOT REQUIRED FOR THIS INSTALLATION. AIRCRAFT WAS REPAINTED BY ADVANCED AIRCRAFT REFINISHERS. AIRCRAFT INTERIOR WAS REFURBISHED BY SOUTHERN AIR CUSTOM INTERIORS, INC. CRS UUSR697L. AVIONICS WERE UPGRADED BY SOUTHERN AVIONICS & COMMUNICATIONS, CRS HW4R427M., SEE LOG ENDORSEMENTS FROM EACH SHOP FOR DETAILS. AIRCRAFT WAS WEIGHED AFTER ALL MODIFICATIONS. NEW EMPTY WEIGHT 5136.0 LBS, EMPTY CG 156.28, NEW EMPTY MOMEN' [ 802640.76, AND NEW USEFUL LOAD 1969.0. AIRCRAFT MAXIMUM RAMP WEIGHT INCREASED TO 7140 LBS., MAXIMUM TAKEOFF WEIGHT INCREASED TO 7105 LBS. PER RAM DRAWING NO. 1610 REV.F. DATED 03/23/2007 IAW STC SA8728SW-D. EQUIPMENT LIST UPDATED. AIRCRAFT FLIGHT MANUAL UPDATED. I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND FOUND AIRWORTHY THIS DATE. AIRCRAFT TEST FLOWN AND RETURNED TO SERVICE. SIGNED CERT#: 3479116 A&P IA CFI Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521 Shoreline Shoreline Avlation, Inc. VIATION Marchfield Municipal Airpor George Harlow Field (GHG) 93 Old Colony Lane Marshfield, WA 02050 Aircraft L 12/1/2013 N414MP Cessna 414A, serial # 414A-0317 Hobbs Hours: 232.1 :: Aircraft TT: 4054.7 :: #1 Engine TT: 3184.5 :: #1 Engine SMOH: 23.5 :: #1 Propeller TT: 23.5 :: #2 Propeller TT 2: + Engine TT: 2481.0 :: #2 Engine SMOH: 23.5 :: Heater Hobbs: 367.2 Edward J. Novak Jr. AND 2832024 1A N414MP 2/28/2014 Hobbs Hours: 244.0 work accomplished. Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521 SUB-TOTALS this page TOTALS-Carry forward to next page

Shoreline **WIATIO** 

Engine TT: 2481.0 :: #2 Engine SMOH: 23.5 :: Heater Hobbs: 367.2 Completed annual inspection in accordance FAR 43, appendix D using the Cessna 414A Maint, Manual Insp. Form and any applicable ICA's for any STC

1) Complied with FAR 91.207(d) on the ELT and noted no defects. Next due 12/14. ELT battery is due 02/19. 2) installed a new RH MLG trunnion (part # 5141103-14) and shimmed the pivot pins as needed. Reassembled strut using all new seals and a new lock

3) R+R RH alternate air control control knob (part # CPN 1167).

4) Reattached the LH fuel cap lanyard to the fuel cap.

5) Removed W/S Alcohol system on/off switch. System was previously removed but the switchwas still installed.

6) Removed Seat Belt and Oxygen fights on/off switches. These lights were previously removed but the switches were still installed.

7) Removed factory EGT gage since it was not connected anyway and added a blanking plate to the co-pilot's panel where this gage was installed. 6) R+R co-pilot's attitude gyro with a new unit (part # 23-501-06-15 (5000B-36), serial # T102324P).

10) R+R fuzzy seal material on the RH nose gear door with new.

11) Added an external aircraft ID plate to the LH side of the fuselage just below the leading edge of the LH horiz stap, that maets the requirements of FAR

12) R+R surface deice pressure switch with a servicable unit (part # 3D3535-7). Function check OK. 13) Added a doubler to the recently installed ELT antenna per Kannad ELT installation manual 14) R+R aft bulb in the RH tail logo light - function check OK. 15) Added several required placards that were found to be missing - all required placards now installed. 16) R+R RH fuel selector valve after installing all new internal o-rings. Function and leak checkOK. A servicable fuel line (part # 5100110-226) was installed in place of the existing one fue to a cracked flare on one end. 17) Repaired the fuel selector off push buttons so that the fuel selector cannot be moved to off unless this button is pushed. 18) Repaired cockpit divider partition attachments by adding a bracket the was missing from the LH side and by R+R of a stripped nutplate on the RH side. 19) Repaired frayed wires at the LH position light bulb socket connector. 20) Freed up and lube a flap cable pulley in the LH wing root area that was not rotating when the flaps were moved.

21) R+R both vacuum regulator gerter filterw with new ARB3-5-1 filters. 22) Rewired the hobbs meter to it's original configuration so that it operates when the LH gear is off of the ground using the original wiring that was found to be still in the airplane. Previously the hobbs ran whenever the battery master was on.

23) R+R hydralic reservoir servicing valve with a servicable unit (part # MS29530-8). 24) Cleaned and R+R o-ring in the RH deice boots control valve - function and leak check OK. 25) R+R dimming potentiometer in the polit's control yoke for the pilot's overhead map light with a new unit (part # \$1880-5). 26) Repositioned shims for the LH MLG trunnion pivot pins to move the gear slightly forward so as to provide proper uplock hook engagement.

27) R+R static wick on the LH aileron with a new unit (part # DG16165).

Shoreline AVIATION

Installed Relff "Turbo XP" FAA-PMA Approved preheater system on each engine. The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved tor return to service for t

	Shoreline Aviston, Inc.
-	Marshield Municipal Airport George Harlow Field (GHG) 23 Old Colony Lare
	Marshfield, MA 02450

#### Cessna 414A, serial # 414A-0317

Service and

Hobbs Hours: 232.1 ;; Aircraft TT: 4054.7 ;: #1 Engine TT: 3184.5 ;: #1 Engine SMOH: 23.5 :: #1 Propeller TT; 23.5 ;; #2 Propeller TT; 23.5 ;; #2

I certify that this Airframe has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

Novak Jr A+P 2832024 A

Shoreline Iviation, Inc. Marshfield Municipal Airport

Geoige Harl/W Field (GHG) 93 Old Colory Lane Manshfield NA 02050

Cessna 414A, serial # 414A-0317

taft Logbook

Aircraft Logbook

signed Calward A

Edward J. Novak Jr. A+P 2832024 IA

	*		12	Airline Accessory Service Co., 455 Putnam Avenue Hamden,
	AVIATION Shoreline Aviation, Inc.	8K	AASCO	E-mail sales@airlineaccessory www.airlineaccessory.com
	Marshfiold Municipal Airport George Liardow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050			
TT: 75.8 :: #2 Propeller TT: 75 Completed Inspection Operation	Cessna 414A, serial # 414A-0317         Aircraft Logbod           t TT: 4107.0 :: #1 Engine TT: 3236.8 :: #1 Engine SMOH: 75.8 :: #1 Propelle           5.8 :: #2 Engine TT: 2533.3 :: #2 Engine SMOH: 75.8 :: Heater Hobbs: 386.2           n 1 in accordance with Cessna Model 414A Maintenance Manual (50 hour			
unit (part # LL17500-08, serial a 2) Completed 6 month cabin fi 3) AD 200101-16 (para B) co 4) R+R RH wing tip white nav.	ne seatback adjustment in the forward facing seat at the cabin door with an O/H # 63131). See attached 8130-3 form for details. re extinguisher check and noted no defects. ompleted - see engine logs for details. Light bulb with a new one (part # W692).			Certificate o
I certify that this Airframe has b determined to be in an airworth	Signed from the the		Job #:1360	2003
	James McGeary A+P 2694173		Shoreline /	Aviation, Inc.
	Shoreline		ASSY P/N.	9910154-3
	AVIATION Shoreline Aviation, inc. Marshileki Municipal Airport Georga Harlow Field (GHG) 93 Oki Colony Lane Marshileki. MA 02050		ASSY S/N.	2919
TT: 2582.7 :: #2 Engine SMC	Cessna 414A, serial # 414A-0317       Aircraft Logboo         A TT: 4155.8 :: #1 Engine TT: 3286.2 :: #1 Engine SMOH: 125.2 :: #2 Eng         DH: 125.2         ection items per the Cessna 414A Maintenance manual progressive care inspection	n		signed acknowledges that the a ally tested IAW CFR49.180. U
due at 383,2 (hobbs).	mpleted to both engine exhaust systems. See engine log for further details. I	łe	DOT-3AA2	200
3) R+R two stripped nutplates The above work was complete	igation light bulb with a new bulb. for the access panel on the belly just behind the nose gear wheel well. d in accordance with current regulations of the Federal Aviation Administratio		S/N. 1890Y	
is approved for return to service Shoreline Aviation, Inc.	e for the work accomplished.		Test Press	ure: 3700 Psi.
93 Old Colony Lane Marshfield, MA 02050 781-837-8521	Signed Edward J. Novak Jr. A+P 2832024 IA		Hydro-Test	Date: January 19, 2015
	$\begin{array}{c c} Reg: AU4114 \\ \hline \\ Date: g/ae114 \\ Hobbs: $75.9 \\ \hline \\ Tach: \end{array} \qquad \qquad N E \\ A I R \\ A V O H I C S \end{array}$	)	Date: Janu	ary 19, 2015
	Tach:       A V O HICS         W0# JJSS       The Altimeter, Pitot, Static and Altitude Reporting Systems have been tested and found to be in compliance with FAR 43, Appendix E and F, required by FAR 91.411, Tested to SOOft.		Inspector:_ S	teve Talbot
	The ATC Transponder has been tested and found to be in compliance FAR 43, Appendix F, as required by FAR 91 413. NEXAIR AVIONICS CRS:N4OR04	with		
	SUB-TOTALS this page			
	TOTALS—Carry forward to next page	1		



FAA # L0KR782Y EASA # 145.5503 Ph. (203)773-1808 Fax (203)773-1888

# of Conformance

article herein mentioned has been Jnder Retester Identification Number I363.

#### Airline Accessory Service Co. LLC Work Order/Teardown Report 136Q003

455 Putnam Avenue Date 1/19/15 Hamden, CT 06517 USA FAA Repair Station L0KR782Y P.O. No. 07183 Customer Phone 781-834-4928 Ph. 203-773-1808 Fax 203-773-1888 Customer Customer Fax 781-837-5103 Shoreline Aviation, Inc. Manufacturer Cessna 93 Old Colony Ln. Marshfield, MA 02050 Received By KF Customer Tags Attached Terms Net 30 **Component Description** Qty Part Number Serial Number 9910154-3 Pneumatic Cylinder 1 2919

RECEIVING INSPECTION REMARKS (including preliminary findings) For HYDROTEST DOT- 3AA 2200 Mfr. 02/82

DATE 1/19/15

TEARDOWN INSPECTION REMARKS

- . The cylinder has been visually inspected. No damage was found.
- Cylinder hydrostatically tested in accordance with CFR 49.180 under RIN # 1363.

INSPECTOR,

7

• Hydrostatic retest due Jan. 2020.

Upon completion of the testing procedure, the cylinder will be returned with a Certificate of conformance attached.

DATE119/15	INSPECTOR
LIST OF APPROVED DATA TO BE USE	
OHM / CMM	OTHER DATA CFR 49, 180
REVISION	
PAGES	
DATE	

		AVIATION	Shoreline Aviation, Inc.	
			Warshlield Municipal Airport George Harlow Field (GHG) 83 Old Colony Lan Marshield Mit America	
1/23/2015	N414MP	Corena 4148	Marshield. MA 02050	
Hobbs Hou #2 Engine T Completed	rs: 373,1 :: Aircraft TT: 4 TT: 2622.6 :: #2 Engine S Operations #3 & #4 inneed	195.7 :: #1 Engine TT: 3326.1 :: #1 Ei 3MOH: 165.1	serial # 414A-0317 ngine SMOH: 165.: :: #1 Propeller TT: 16:	Aircraft Logbo
2) C/W AD	2000-01-16 paragraphs B	<ul> <li>C &amp; E to both engine exhaust systems</li> </ul>	per AD instructions and noted no defects.	See separate A.D. Listing for no.
for next corn 4) C/W 6 m	2004-25-16R1 to the cabi plicnace due time. ponth cabin fire extinguisha	n heater fuel pressure regulating/shutoff er checks and noted no defects. lower inlet and outlet air ducting with new pecial inco. Itoms and patients	valve per AD instructions and noted no defe	ects. See separate A.D. Listing
7) R+R N2 due 01/20,	bottle after successful hyd	rostatic testing was completed by Airline	Accessory Service - see attached paperwor	k for details. Next bottle test
- 10) R+R ma	in airplane battery with a n	ew unit (part # 5741222-17). Function c year 6.50x10 8pr tire. Repacked wheel b ew Concorde RG24-20 battery (serial #	Dearings.	
		ected in accordance with Operations #3 & on	adroes27). 8 #4 of the Cessna Progressive Care inpsec	tion program and was
Shoreline Avi 93 Old Colon Marshfield, M	iy Lane			
781-837-852	1		in A	- 1 A
+			signed Colward A.	Noval J
1			Edward J. Novak J	r. A+P 2832024 IA
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		AVIATION	sentine Autolica to	
			Ioreline Aviation, Inc.	
		Me	ushfield Municipal Airport lorge Harlow Field (CHC)	
		93	Old Colony Lane	
7/2/2015	N414MP		Ishfield. MA 02050	
Habbs Hours: 42		Cessna 414A, serial i	¥ 414A-0317	Alternati Lankask
#2 Engine TT: 28	73.6 :: #2 Engine SMOH:	:: #1 Engine TT: 3377.3 :: #1 Engine 5	# <b>414A-0317</b> SMOH: 216.3 :: #1 Propeller TT: 216.3 :: #	Aircraft Logbook
Completed Inspec	tion Operation 1 in account	216.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	#2 Propeter 11: 216.3 ::
1) AD 2001-01-1	6 (there B) compared at	ance with Cessna Model 414A Maintenal	nce Manual (50 hour inspection items)	
The Foot and the	tin white new I just had had	a shire togo tot delatis.		
2) R+R RH wing t		36 # (26305)		
<ol> <li>R+R RH wing i</li> <li>R+R tail mount</li> </ol>	4 VP	in accordance with a constant at a		
<ol> <li>R+R RH wing i</li> <li>R+R tail mount</li> </ol>	inframe has been inspected			Har condition
<ol> <li>R+R RH wing t</li> <li>R+R tail mount</li> <li>I certify that this Ai</li> </ol>	inframe has been inspected	e operation in this period	ection and was petermined to be in an airwor	any condition.
<ol> <li>R+R RH wing t</li> <li>R+R tail mount</li> <li>I certify that this Ai</li> <li>Shorefine Aviation,</li> </ol>	Inc.	// openation with hispe	ection and was petermined to be in an airwoi	
<ol> <li>2) R+R RH wing t</li> <li>3) R+R tail mount</li> <li>1 certily that this Ai</li> <li>1 certily that this Ai</li> <li>2 Shoreline Aviation,</li> <li>9 Old Cotony Lan</li> <li>Marshfield, MA 02</li> </ol>	Inframe has been inspected Inc. e		ection and was petermined to be in an airwol	any contaition.
<ol> <li>2) R+R RH wing t</li> <li>3) R+R tail mount</li> <li>1 certily that this Ai</li> <li>1 certily that this Ai</li> <li>2 Shoreline Aviation,</li> <li>3 Old Cotony Lan</li> </ol>	Inframe has been inspected Inc. e	- Al-		
<ol> <li>2) R+R RH wing t</li> <li>3) R+R tail mount</li> <li>1 certily that this Ai</li> <li>1 certily that this Ai</li> <li>2 Shoreline Aviation,</li> <li>9 Old Cotony Lan</li> <li>Marshfield, MA 02</li> </ol>	Inframe has been inspected Inc. e	- Al-		The last
<ol> <li>R+R RH wing t</li> <li>R+R tail mount</li> <li>certily that this Ai</li> <li>certily that this Ai</li> <li>Shorefine Aviation,</li> <li>Old Cotony Lan</li> <li>Marshfield, MA 02</li> </ol>	Inframe has been inspected Inc. e	- Al-	igner Edward Mor	all
<ol> <li>2) R+R RH wing t</li> <li>3) R+R tail mount</li> <li>1 certily that this Ai</li> <li>1 certily that this Ai</li> <li>2 Shoreline Aviation,</li> <li>9 Old Cotony Lan</li> <li>Marshfield, MA 02</li> </ol>	Inframe has been inspected Inc. e	- Al-		all
<ol> <li>R+R RH wing t</li> <li>R+R tail mount</li> <li>certily that this Ai</li> <li>certily that this Ai</li> <li>Shorefine Aviation,</li> <li>Old Cotony Lan</li> <li>Marshfield, MA 02</li> </ol>	Inframe has been inspected Inc. e	s 	igner Edward Mor	all
<ol> <li>2) R+R RH wing t</li> <li>3) R+R tail mount</li> <li>1 certily that this Ai</li> <li>1 certily that this Ai</li> <li>2 Shoreline Aviation,</li> <li>9 Old Cotony Lan</li> <li>Marshfield, MA 02</li> </ol>	Inframe has been inspected Inc. e	S بن الاتحاد المراجع الاتحادات المراجع الاتحادات المراجع الاتحادات المراجع الاتحادات المراجع المراجع المراجع ال	igner Edward Mor	all
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2) R+R RH wing i 3) R+R tail mount I certify that this Ai Shorefine Aviation, 93 Old Cotony Lan Marshfield, MA 02 761-837-8521	Inc. e 2050	S Vitorsfra avisti viti Vizanie waich viti Vizanie waich viti viting traing the solution Solution to the solution Marchite tes upply	ignec. Colorad Mov Edward J. Novak Jr. A+)	all
2) R+R RH wing i 3) R+R tail mount I certify that this Ai Shorefine Aviation, 93 Old Cotony Lan Marshfield, MA 02 761-837-8521	Inc. e 2050 Mature has been inspected inc. e 2050 Cessna 4	S Vitorisfine Autotry Linit Vistative Westernal Autority Vistative Westernal Autority Statistic Heat (18174) Statistic Heat (18174)	igner Edward Mor	all
<ul> <li>2) R+R RH wing i</li> <li>3) R+R tail mount</li> <li>3) R+R tail mount</li> <li>1 certify that this Ai</li> <li>Shorefine Aviation,</li> <li>93 Old Cotony Lan</li> <li>Marshfield, MA 02</li> <li>761-837-8521</li> <li>8/1/2016</li> <li>N</li> <li>Hobbs Hours: 455.6</li> </ul>	Inc. e 2050 414MP Cessna 4 3 :: Heater Hobbs: 418.5	S Utorsfrae Avistry Link Vistarie (weichen Linke Vistarie (weichen Linke) Statistic Linke (site) Statistic Linke (site) Michaele (site used so Michaele (site used so	Edward J. Novak Jr. A+1	all
<ul> <li>2) R+R RH wing i</li> <li>3) R+R tail mount</li> <li>3) R+R tail mount</li> <li>1 certify that this Ai</li> <li>Shorefine Aviation,</li> <li>93 Old Cotony Lan</li> <li>Marshfield, MA 02</li> <li>761-837-8521</li> <li>8/1/2016</li> <li>8/1/2016</li> <li>N</li> <li>Hobbs Hours: 455.6</li> <li>Compled with AD 20</li> <li>The above work was</li> </ul>	Inc. e 2050 4141MP Cessna 4 3 :: Heater Hobbs: 418.5 204-21-05 (Cabin heater pr or 08/17	S Utorsfire eventstil Line Vernige eventstil Line Vernige eventstil Line Vernige eventstil Line Vernige eventstiller Vernige e	Edward J. Novak Jr. A+1	all

Form RD1 Rev 1

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Matthew Dean Murphy A&P 2662

		-	Page No				
			DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	1
Calif A Voluci Alternative Georgen Hactow Fletz (GHG) 93 0 d Oxform Lane	0	0			<u> </u>		
Maratdiala, MA 02050							
B/4/2015     N414MP     Cessna 414A, Serial Number 414A0317     Aircraft Logbook       Hobbs Hours: 456.3							
Trouble shot hydrautic teak in the nose of aircraft. Removed and replaced packing on emergency extention				11/19/2015			
shuttle valve, packing P/N: MS28776-6. Serviced hydraulic reservoir with 1 1/2 quarts of Phillips Hydraulic Oli MIL-PRF-5606H. The above work was completed in accordance with current regulations of the Federal Aviation Administration and				1) Reins	talied Right eng	ircraft TT: 4309 gine after repair einstalled exist	air
is approved for return to service for the work accompliand. Signed Matthew Dean Murphy A&P 2862824				2) Reins more info, 3) C.W.	tailed exhaust AD 2000-01-16	p/n 9910295-1: 5 ( para b) to Ri	rl: Ri
				The above return to se	work was comp rvice for the wo	pleted in accord ork accomplishe	nd Ne
AVIATION Shoreline Aviation, Inc.						I	
Marshfield Municipal Airport George Harlow Field (GHG) 93 Okl Colony Lana Marshfield, NA 02050							
8/22/2015         N414MP         Cessna 414A, serial # 414A-0317         Aircraft Logbook           Hobbs Hours: 472.6 :: Aircraft TT: 4295.2 :: #1 Engine TT: 3427.6 :: #1 Engine SMOH; 266.8 :: #1 Propeller TT: 266.8 :: #2 Propeller TT: 266.8 ::         #2 Propeller TT: 266.8 :: #2 Propeller TT: 266.8 ::					-		
#2 Engine SMOH: 266.6 :: Heater Hobbs: 419.0					12/3/2		
Completed Operation #2 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form. 1) C/W AD 2000-01-16 (para b) to both engine exhaust systems per AD instructions. No defects noted. Next due at 522.6 (hobbs).	0					s Hours: 491.3 Installed overhai	
2) C/W Cessita 50 hr. Special Inspection items/					8130-3	3 for more info.	р.
<ol> <li>R+R landing gear emergency extension handle cover/guard (part # 5117030-1) with a used/serviceable unit - see attached tag for details.</li> <li>Removed, cleaned and reinstalled both deicer boot flow control valves. Function and leak check satisfactory.</li> </ol>						eft engine grou tove work was	
<ul> <li>5) R+R LH main gear uplock hook (part # 5141312-2) and LH uplock hook pivol bolt (part # NAS464P6-29) with new parts. Function check satisfactory.</li> <li>6) R+R LH main tire with a new Michelin Air tire (part # 076-356-1).</li> </ul>					is appr	roved for return	n
7) R+R emergency gear extension system shuttle valve (part # AN6277-6, serial # 419-5D27) with a used/serviceable unit - see attached tan for details							
Leak check and functional checks were satisfactory. 6) Repaired folding armrest latch mechanism for the RH forward facing cabin seat.							
<ol> <li>C/W AD 2004-25-16R1 (para (e)(1) per AD instructions and noted no fuel leakeage. Next due at 572.6 (hobbs) or 01/16.</li> </ol>							
The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.							
							1
Shoreline Aviation, Inc. 93 Old Colony Lane							
				- 1	- 1	1	1
781-837-8521 Signed Gelward A Novah J				NexAi	Avionics LL	C 265 FRUIT	IT
Edward J. Novak Jr. A+P 2832024 IA				LOG II	D# 272 16-D IP S/N 414	ecember-201	15
				INSTALL	ED GARMIN GD	L 69A P/N 01	1
			T	013-002 N414MP-	35-00 S/N 94	UFACTURER'S 835. MODIFI EE 8110-3 N4 106-1544-301	I.
				P/N 010 ACCORDA	6-Y12 S/N 00 NCE WITH MAN	106-1544-301 UFACTURER'S	1
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						965 ON FILE,	
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DESCRIPTION OF WORK PERFORMED-SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK areline ATION Shoraline Avietion, Inc. Valshfield Municipal Airport Gistings' Harlow Field (O) IG) 83 Old Colony Lane Nershtield, MA 02050 ssna 414A, Serial Number 414A0317 Aircraft Logbook VA1R551K. Vacuum pump, tach generator and alternator all reinstalled with the pump after repair by CRS RV3R829L - see FAA form 8130-3 for more info. 0295-14 after repair by Dawley Aviation CRS NJ5R069NP see repair paperwork for exhaust - no defects noted. current regulations of the Federal Aviation Administration and is approved for Signed John E. Cheehan A+P.3439269 IA AVIATION Shoreline Aviation, Inc. watchild Weaking Airport Reage Hades Field (GHG) 23 Old Geloay Lane Marshand, MA 02055 Cessna 414A, Serial Number 414A0317 Aircraft Logbook t TT: 4313.3 # HJ5R911M) LEFT deice flow valve p/n 3D2352-01 s/n R1075. See FAA form and functional check of deice system OK. I in accordance with current regulations of the Federal Aviation Administration and for the work accomplished Signed John E. Sheehan A+R 3409269 IA . T MANSFIELD, MA 02048 N4OR087B 2965/5 AC TT 497.4 HOBBS 497.4 414A Pg 1/1 11 S/N 3NV000577 WITH CI 428-410 XM/WAAS GPS ANTENNA IN TION MANUAL. REMOVED EXISTING GARMIN GA 35 ANTENNA P/N INA LOCATION AND DOUBLER IN ACCORDANCE WITH DRAWING 115-1 AND FAA FORM 337 THIS DATE. INSTALLED S-TEC YAW SERVO AND YAW DAMPER P/N 0.121-2 S/N 00121-1543-04414A IN TION MANUAL. JT AFFECTED BY SB, MARKED MOD 5 IAW SB 1559. NT LIST AND WEIGHT & BALANCE UPDATED. OTALS this page

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			Page No.	AVIATION Shoreline Aviation, Inc.
AVIATION Shorefine Aviation, Inc.			DATE	Marshileki Mualcipat Amport George Hartow Fidd (GHG) 93.0td Colory Lane Marshileki, MA 02050 NORK
George Harlow Field (GHG) 93 Old Colony Lane Marthfield, MA 02050	D	0		5/27/2016 N414MP Cessna 414A, Serial Number 414A0317 Aircraft Logbook Hobbs Hours: 541.7
				-Removed Hydraulic Pressure Switch p/n: 9910287-10 s/n: 4361 and installed New Hydraulic pressure switch
Hobbs Hours: 504.5 :: Aircraft TT: 4327.1 :: #1 Engine TT: 3459.7 :: #1 Engine SMOH: 2001 :: #1000 - 2001				p/n: 9910287_s/n: 7563. Ops check normal. ————————————————————————————————————
198.7 :: #2 Engine 11: 2750.2 #2 Engine enter the Cessna 414A Maintenance manual progressive care inspection form.				-Ali work complied with in reference to the Cessna 414A Service Manual.
) C/W FAR 91.207(d) on the ELT and noted no delects - next due of the provide AD, Listing				The above work was completed in reference with current regulations of the Federal Aviation Administration and     is approved for return to service for the work accomplished     Signed
or next compliance due times.				Jason Pereira A&P 3389376
sting for next compliance due line.				
) One year main battery capacity creck completed - bit (apr # 9910285-2) - function check OK.				Shoreline
) R+R surface deice timer with a used/serviceable unit (bart # bothin position light. ) Repaired broken ground wire terminal end for the LH wing tip white position light.				AVIATION Shoreline Aviation, Inc.
3) R+R circuit breaker for the CH tartoning light with the new unit (nart # 5211369-11).				Marshitleid Municipal Airport George Harlow Field (GHG)
0) R+R both vacuum regulator valve milers with here ones (part a value)				93 Gid Colony Lane Narshfield, MA 02050
1) R+R both fuel cap lanyards with new ones.				. 6/1/2016 N414MP Cessna 414A, Serial Number 414A0317 Aircraft Logbook
a) D.D.I Lywing outboard static wick and upper rouger orders that the tracks				Hobbs Hours: 551.2
a this that this Airframe has been inspected in accordance with Operation 3 of 4 of this contained and				Complied with Main Battery Check - Passed - Next due: 09/30/2016.
letermined to be in an airworthy condition.				The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accompleted.
choreline Aviation, Inc.				Signed
13 Old Colony Lane Aarshfield, MA 02050				Jason Pereira A&P 3389376
13 Old Colony Lane Aarshfield, MA 02050 (81-837-8521 Edward J. Novak Jr. A+P 2832024 IA				
Edward J. Novak Jr. A+P 2832024 IA	1.00	100		
	- 01	0		AVIATION Shcreline Aviation, Inc.
				Marshfield Municipal Airport
Starcline AVIATION shareline Aviation, Inc.				George Harlow Field (GHG) 93 Old Colony Lane
Valentierd Musicipal Aleport Charge Harker Hold (GHG)	-			Marsinfield. MA 02050
Registration RS OEI Colonia Lano Merzitilati, MA 02060				6/17/2016         N414MP         Cessna 414A, Serial Number 414A0317         Aircraft Logbook           Hobbs Hours: 554.1 :: Aircraft TT: 4376.7 :: #1 Engine TT: 3509.3 :: #1 Engine SMOH: 348.3 :: #1 Propetter TT: 348.3 :: #2
Aircraft Logbook				Engine TT: 2805.8 :: #2 Engine SMOH: 348.3 :: #2 Propeller TT: 348.3
	-			Completed Operation #1 inspection items per the Cessna 414A Maintenance manual progressive care inspection form
Hobbs Hours: 518.4 Removed AFT De-Ice flow valve p/n: 3D2352-01 s/n: 18(not legable). Installed OVH De-Ice flow valve p/n:				<ol> <li>C/W AD 2000-01-16, paragraph b to both engine exhaust systems per AD instructions and noted no defects.</li> <li>C/W AD 2004-21-15 on aircraft heater and noted no defects.</li> </ol>
The above work was completed in accordance with current regulations of the Federal Aviation Administration and				3) Completed 6 month cabin fire extinguisher check and noted no detects.
the above work was completed in accordance with control of the second listed				I certify that this Airframe has been inspected in accordance with Operation 1 of the Cessnal frogressive Care inspection program and was determined to be in an airworthy condition.
Signed Jason Pereira A&P 3389376				Signed Jele )
Jasun Palena Aut Goodoro		•		John E. Sheehan A+P 3439269 IA
	-			
				Shoreline
				AVIATION Shoreline Aviation, Inc.
AVIATION Shoreline sylation, inc.	_			George Harlow Field (GHG)
Marshibid Municipal Airport George Harlow Field (Gill(G)				93 Old Colony Lane Mersthield, MA 02030
Signa Farlow Field (Street) 93 Colory Land Marcather, MA 02052				6/30/2016 N414MP Cessna 414A, Serial Number 414A0317 Aircraft Logbook
Aircraft Logbook	-			Tach Hours: 565.6
a 2/2/2010				Removed #2 engine gage p/n; C662019-0101 s/n; C784 and installed functional tested Gage (functional tested by Kelly Manufacture CRS#LL2R982K) p/n; RCA272-06 s/n; 815J054
Hobbs Hours: 4941:00-7 5: 8: 7 Removed, Replaced LH p/n: 5:111413-3 and RH p/n: 5111141-4 foul weather seal. In reference to the Cessna	11	0		The above work was completed in accordance with current regulations of the Federal Aviation Administration
At 4A Service Manual. The above work was completed in accordance with current regulations of the Federal Aviation Administration and The above work was completed for the work accordance of the regulations of the Federal Aviation Administration and			7	and is approved for return to service for the work accomplished
The above work was completed in accordance with current regulations of the record result of the service for the work accomplished.				Jason Pereira A&P 3389376
Signed				
Jason Pereira A&P 3389376				

NSN: 0052-00-012-9005

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			Page No	AVIATION Shoreline Aviation, Inc.
Date:         7/18/2016         N         414MP         Airframe Log W/0         14-07-18           594.4         hobb/TACH         TAT         TAT         TAT				TO 93 Old Colony Lane Marshield Municipal Airport
594.4     Nobb/TACH     TAT       Weigh A/C This date (EWB)     DESCRIPTION OF WORK PERFORMING WORK	0	0	DATE	SEF         8/10/2016         N414MP         Cessna 414A, serial # 414A-0317         Aircraft Logbook         DRK           Hobbs Hours: 612.9         :: Aircraft TT: 4435.5         :: #1 Engine TT: 3568.1         :: #1 Engine TSMOH: 407.1         :: #1
New EW     5001.0#     : forward from previous page       New EWCG     156.87				Propeller TT: 407.1 :: #2 Propeller TT: 407.1 :: #2 Engine TT: 2864.6 :: #2 Engine TSMOH: 407.1 Completed Operation #2 inpsection items per the Cessna 414A Maintenance manual progressive care
New EW Mon 784519.95				inspection form.  1) Completed repair to the LH inboard cowl door at the lower two cowl fastener holes. Reapplied anti-chafe tape as necessary.
For CRS NCLR674G		1		<ul> <li>2) R+R RH logo light ait light bulb with a new unit.</li> <li>3) Reglued the cabin door step tread material where necessary.</li> </ul>
Г·		1		4) R+R one rivnut used to attached the trim ring around the fuel selector knobs. I certify that this Aircraft has been inspected in accordance with Operation #2 of the Cessna Progressive Care inspection program and was determined to be in an airworthy condition.
AVIATION Shoreline Aviation, Inc.	1			Shoreline Aviation, Inc. 93 Old Colony Lane
Marshtield Municipal Airport George Harlow Field (GNG) 93 Old Colony Lane Marshtield MA 02059				Marshfield, MA 02050 781-837-8521
8/5/2016 N414MP Cessna 414A, serial # 414A-0317 Aircraft Logbook				Laurence F. Mulioy A+P 23507120
<ul> <li>Hobbs Hours: 607.0 :: Aircraft TT: 4429.6</li> <li>1) C/W AD 2000-01-16, paragraph B by completing a visual inspection of both engine exhaust systems. No</li> <li>defects were noted. Next check due at 657.0.</li> </ul>	-			Shoreline
<ul> <li>2) C/W AD 2004-25-16 R1 on the cabin heater fuel pressure regulator/shutoff valve per SD instructions and noted no defects or evidence of fuel leakage. Next check due at 707.0 or 08/17.</li> <li>The above work was completed in accordance with current regulations of the Federal Aviation Administration</li> </ul>	-		-	AVIATION Shoretine Avlation, inc. Marshileld Municipal Airport George Harlow Field (GHG)
and is approved for return to service for the work accomplished.	1		-	93 Okt Colony Lane Maphfield, Ma 02050
Shoreline Aviation, inc. - 93 Old Colony Lane Marshfield, MA 02050	1			N414MP         Cessna 414A, serial # 414A-0317         Air:           : 645.3 :: Aircreft TT: 4467.9 :: #1 Engine TT: 3600.5 :: #1 Engine TSMOH: 439.5 :: #1 Propelier TT: 439.5 :: #2 Propel         TT: 2897.0 :: #2 Engine TSMOH: 439.5 :: Heater Hobbs: 436.3
Marshfield, MA 02050 781-837-8521 Signed Edward & Morch & Edward J. Novak Jr. A+P 2832024 IA	0		Completed Opera - 1) Completed 50	peration #3 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form. d 50 hr. Special inspection items.
	_		<ul><li>3) Completed 10</li><li>4) Completed 90</li></ul>	d 400 hr. Special inspection items. d 1000 hr/3 yr. Special inspection items. d 90 day main battery capacity check - battery passed.
Reg: N414MP Date: 5/9/16 TTSN: 612.8 N E A I R A V I O N I C 3	-		<ul> <li>6) Repaired outb</li> <li>7) Installed a new</li> </ul>	2000-01-16 (para.b) to the exhaust and noted no defects. outboard cowl door on the LH side at the lower rear corner by adding a sheet metal patch to the chafed corner edge. I new RH main tire (Michelin Air 6.50x10 8pr - part # 076-345-0). Repacked wheel bearings.
TACH: N/A	1		9) Rotated LH m	new nose tire (Michelin Air 6.00x6 <del>6</del> pr - part # 070-314-0), Repacked wheel bearings. H main tire - repacked the wheel bearings. 2016-17-08, para. (f)(2) - (visual insp. of elev trim tab hardware) - no defects noted. Next due 09/17 or 755.3 (hobbs)
found to be in compliance with FAR43, Appendix E and F, as required by Fax 91 411. Tested to 35,000 ft.			certify that this A	his Airframe has been inspected in accordance with an Operation #3 inspection and was determined to be in an airworthy conception and the second attack the second attack to be an airworthy conception.
TC Transponder has been tested and found to be in compliance with FAR 43, dix F, as required by FAR 91.413	4		93 Old Colony La Marshfield, MA 0 781-837-8521	y Lane
Mining         Mining<	-		-	Signed Colliv and A Moraly
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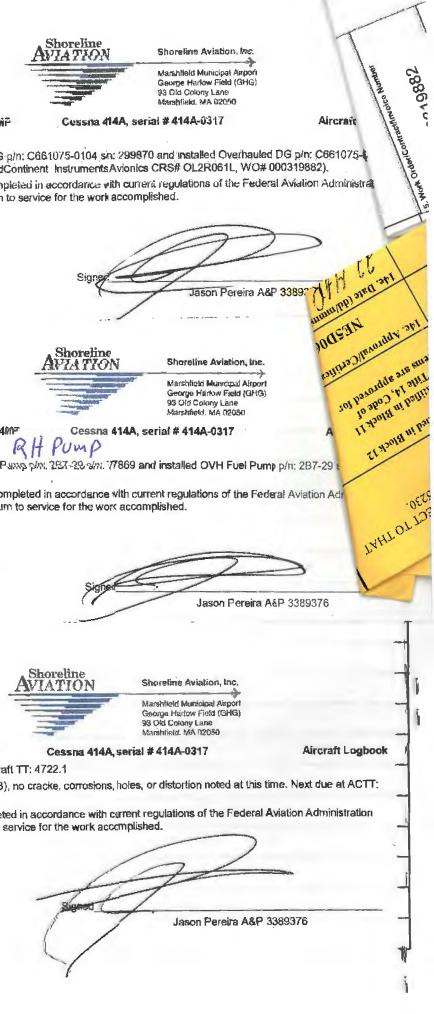
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Page No.	AVIATION Shoreline Aviation, Inc. Marshfield Municipal Airport George Hartow Field (GHG) 93 Oki Colory Lane				Page No. Shoreline Aviation. Inc. Marshiled Municipal Airport George Markow Field (GH3)
inspect -Comp	Marshited. NA 02050 2016 N414MP Cessna 414A, serial # 414A-0317 Hours: 670.6 tions Nied with main battery capacity check. No defects noted at this time.	3 WORK Aircraft Logbook	0		DATI     93 Old Colony Lane Marchitetri MA 02050     3MING WORK       3/27/2017     N414MP     Cessna 414A, serial # 414A-0317     Aircraft Logbook       Hobbs Hours: 690.5     C/W Main Battery Capacity check. The above work was completed in accordance with current regulations of the Federal Aviation Administration     Image: Colony Lane Marchitetri MA 02050
The ab and is Shore! 93 Old Marshi	Vied with fire extinguisher inspection. No defects noted at this time, howe work was completed in accordance with current regulations of the Federal Avia approved for return to service for the work accomplished. ine Aviation, Inc. Colony Lane field, MA 02050 87-8521 Signed Jason Pereira A&P 338				and is approved for return to service for the work accomplished. Shoreline Aviation, Inc. 93 Okt Colony Lene Marshfield, MA 02050 781-837-8521 Signed 510 100 100 100 100 100 100 100
	AVIATION AVIATION Marshileld Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshileld. MA 02050 7 N414MP Cessna 414A, serial # 414A-0317	Aircraft Logbook			SAX Dem #146-592-141
( Propelie Heater I Comple inspecti Comple Comple 1) C/W A.D. Lis 2) C/W R+R du 3) C/W	7 N414MP Cessna 414A, serial # 414A-0317 Hours: 675.6 :: Aircraft TT: 4498.2 :: #1 Engine TT: 3630.8 :: #1 Engine TSMC er TT: 469.8 :: #2 Propeller TT: 469.8 :: #2 Engine TT: 2927.3 :: #2 Engine TS Hobbs: 442.7 eted Operation #4 inpsection items per the Cessna 414A Maintenance manual pro- ion form. eted 1 year Cessna Special Inspection items. eted 600 hr./1 year Cessna Special Inspectrion items. / AD 2000-01-16 para. b,c,d & e to the exhaust system per AD instructions - no de sting for recurrent items due times. / AD 84-26-02 by R+R of both paper engine air filter elements with new units (part te at 4598.2 ACTT. / AD 2004-25-16R1 on the cabin heater fuel pressure regulator valve and noted no 4598.2 ACTT or 2/18.	DH: 469.8 :: #1 MOH: 469.8 :: gressive care efects noted - see # P12-8156 - next	•	0	Removed ramp assy tab and installed new ramp assy tab p/n: 5742204-2 n reference to the Cessna 414MP         Service manual.         The above work was completed in accordance with current regulations of the Federal Aviation Administration         and is approved for return to service for the work accomplished.         Shoreline Aviation, Inc.         93 Old Colony Lane         Marshfield, MA 02050         781-837-8521         Jason Pereira A&P 3389376
4) C/W 5) Serv 6) R+R cover at 7) R+R 1 certify determi	<ul> <li>(FAR 91.207(d) on the ELT and noted no defects - next due 02/18. ELT battery is viced nose strut per airplane maint. Manual instructions.</li> <li>(alloose rivets with new rivets as needed along the inboard edge of the RH nacelle ttachment flange.</li> <li>(C) RH logo light aft light bulb with a new unit (part # DA-27).</li> <li>(c) that this Airframe has been inspected in accordance with an Operation #4 inspectioned to be in an airworthy condition.</li> </ul>	air conditioning			Shoreline AVIATION       Shorelize Aviation, Inc.         Marshileki Municipel Airport George Farlow Field (GHG) 
93 Old (	Colony Lane ield, MA 02050	9269 IA			<ul> <li>Hobbs Hours: 725.7 :: Aircraft TT: 4548.3 :: #1 Engine TT: 3683.2 :: #1 Engine TSVOH: 522.2 :: #1 Propeller TT: 522.2 :: #2 Propeller T 522.2 :: #2 Engine TT: 2979.7 :: #2 Engine TSMOH: 522.2</li> <li>Completed Operation #1 inspection items per the Cessna 414A Maintenance manual progressive care inspection form.</li> <li>1) C/W AD 2000-01-16, para. B on both engine exhaust systems and noted no defects - next due at 775.7 (hobbs).</li> <li>2) Completed 50 hr. Cessna recommended speciel inspection items.</li> <li>3) Completed 6 month fire extinguisher checks and noted no defects</li> <li>4) Completed Cessna recommended 500 hr. Hydraulic lines inspections and noted no defects.</li> <li>5) R+R both brake discs with new RA164-06504 brsake discs.</li> <li>6) R+R LH tire with a new GYFC!! 6.50x10 8pr tire (part # 650C81-5). Repacked wheel bearings.</li> <li>I certify that this Airframe has been inspected in accordance with an Operation #1 inspection and was determined to be in an airworthy condition</li> </ul>
			0	•	Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521 Edward J. Novak Jr. A+P 2832024 IA
	SUB-TOTALS this page TOTALS—Carry forward to next page				SUB-TOTALS this page           TOTALS—Carry forward to next page

Shoreline				
e No Marshfield Municipal Airport	_		Page No	AVIATION Shorekhe Arlation, Inc.
DATE Ti George Harlow Field (GHG) 1 93 Old Colony Lane Marshfield, \$64 02050			DATE	Marshifeld Municipal Aisport George Harlor: Field (GHG) 
SE         6/29/2017         N414MP         Cessna 414A, serial # 414A-0317         Aircraft Logbook           Hobbs Hours: 751.2         Hobbs Hours: 751.2	0	0		7/24/2017 N414MP Cessna 414A, serial # 414A-0:17 Aircraft Logbook
C/W AD 2016-17-08, para. (I)(2) by visual inspection of the elevator trim tab hardware per AD instructions - no defects noted - next due at 861.2 or 06/18 (whichever occurs first).	-			Hobbs Hours: 773.0 :: Aircraft TT: 4595.6 :: #1 Engine TT: 3730.8 : #1 Engine TSMOH: 569.8 :: #1 Propeller TT: 569.8 :: #2 Propeller TT: 569.8 :: #2 Engine TT: 3027.3 :: #2 Engine TSMOH: 569.8 :: Heater Hobbs: 453.4
The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.				Completed Operation #2 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form.
Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050			i.	<ol> <li>Repaired co-pilot's cabin partition at the attach point to the ceiling.</li> <li>Repaired tail nav. Light by cleaning the ground connection inside the bulb socket.</li> <li>R+R rivnuts on the pilot &amp; co-pilot floor area used to attach the metril kick panels.</li> </ol>
781-837-8521 Signed	_			I certify that this Airframe has been inspected in accordance with an Operation #2 inspection and was determined to be in an airworthy condition.
Jason Pereira A&P 3389376	-			Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050
AVIATION Shoreline Aviation, Inc.	-			
Marshfield Municipal Alrport George Harlow Field (GHG) 93 Old Colony Lare	-			John E Sheehan A+P 3439269 IA
Marshfuld. Ma 92050           7/7/2017         N414MP         Cessna 414A, serial # 414A-0317         Aircraft Logbook	1			
Hobbs Hours: 762.1 C/W with capacity check of the main ships battery. No defects noted at this time.				AVIATION Shoreline Aviation, Inc.
The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished. Shoreline Aviation, Jnc.				Manshilleld Mumilpal Airport George Harlow field (CHG) -93 Old Colony Line
93 Old Colony Lane Marshfield, MA 02050	_			8/12/2017 N414MP Cessna 414A, serial # 414A-0317 Aircraft Logbook
781-837-8521 Signed	0			Hobbs Hours: 799.3 :: Aircraft TT: 4621.9 1) Installed a new RH engine vacuum pump (part # AA442CW, serial #0C1309) Europics and look shock of
Jason Pereira A&P 3389376	-			<ol> <li>C/W AD 95-09-13 (functional check of fuel tank vent valves) per AD instructions and Cessna MEB93-10, rev. 1, para C.2. Using the 74D81T test box and found no defects. Nextdue at 5221.9 (ACTT).</li> <li>The above work was completed in accordance with current regulations of the Federal Aviation Administration</li> </ol>
AVIATION Shoreline Aviation, Inc.	-			and is approved for return to service for the work accomplished.
George Hartow Field (GHG) 93 Old Colony Lane Marshfield: MA 02050				93 Old Colony Lane
7/19/2017         N414MP         Cessna 414A, serial # 414A-0317         Aircraft Logbook           Hobbs Hours: 773.0         :: Aircraft TT: 4595.6         Aircraft Logbook				Signed Calward A Moul / F Edward J. Novak Jr. A+P 2832024 IA
Complied with AD2004-25-16 R1 no defects noted at this time. Next Due July 2018 or 4695.6 which ever occurs first. The above work was completed in accordance with current regulations of the Federal Aviation Administration	_			
and is approved for return to service for the work accomplished.	-		. 1	
93 Old Colony Lane Marshfield, MA 02050 781-837-8521	-		•	AVIATION Shoreline Aviation, Inc.
Signed	-			Marshfield Municipal Airport George Hariwy Field (GHG) \$3 Old Colory Lane Marshjield" A 02050
Jason Pereira A&P 3389376			9/1/2017 Hobbs Hours: 8	N414MP         Cessna 414A, serial # 414A0317         Air           18.0 :: Aircraft TT: 4640.6 :: #1 Engine TT: 3775.8 :: #1 Engine TSM0H: 614.8 :: #1 Propeller TT: 614.8 :: #2 Pri         Air           3072.3 :: #2 Engine TSM0H: 614.8 :: #1 Propeller TT: 614.8 :: #2 Pri         Air
	_		Completed Ope	ration #3 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form
	0	-	3) R+R pilot's tu	0-01-16 (para B) to both engine exhaust systems and noed no defects - text due at 4710.6 (ACTT). cylinder JPI EGT probe with a new probe - function check OK. I'm coordinator with a repaired unit from S-TEC (part # 6405-8-28L, serial # 0514-16688G) - see attached 8130-3 form utation module replaced with a security by News Action (2010)
	10		i i i i i i i i i i i i i i i i i i i	Airfreme has been inspected in accordance with an Operation #3 inspection and was determined to be in an airworthy
SUB-TOTALS this page				Signed John E. Sheehan A+P 3439269

		INVIATION	Storitin Triation, Inc.				Page No.		
			Marshile:d Muncipal Airport George Hartow Field (GHG) 93 Old Colony Lano Marshiled. MA 02050				DATE	TOTAL TIME IN SERVICE	0\
	N414MP		serial # 414A-0317	Aircraft Log	book				
Habbe Hours: 853	.9 :: Aircraft TT: 4676.5 :: #1 E le TT: 3108.2 :: #2 Engine TSM0	ngine TT: 3811.7 :: #	Engine TSMOH: 650.7 :: #1 Proj	beller TT: 650.7 :: #2 Propeller TT:	-				5/3/2018 N4
650.7 :: #2 Engin Completed Operat	tion #4 inpsection items per the C	essna 414A Maintenar	ce manual progressive care inspec	ction form.					Hobbs Hours: 870.2 1.) Removed Copilots
1) Completed 50 l	hr. Special inspection items.								s/n: 71781D (OVH by
3) Completed 1 ve	) hr./ i year special inspection iten ear special inspection items.								The Hoove work was and is approved for re
4) CAN EAR 91 20	07(d) on the FLT and noted no de	efects - next due 03/19.	ELT battery is due 11/19. defects - see AD listing for next rep	etitive items due times					
6) R+R oxygen bo	ottle after hydrostatic testing was	completed by Airpline	Accessory Service - see attached p	aperwork for details. Filled bottle to					Shoreline Aviation, In 93 Old Colony Lane
1800 psi and leak	check OK. ller governor (p/n DFCS290D9/T3	, serial # 950126) with	an O/H unit - see attached 8130-3	form for details.					Marshfield, MA 0205 781-837-8521
8) Completed 6 m	onth cabin fire extinguisher chec	k and found no defects	fects - next due at 4786.5 (ACTT).						701-007-0021
10) C/W 90 day 0	Concorde battery capacity test - ba	atterv passed.							
11) C/W AD 2004 12) R+R ice inspe	I-25-16R1 on the cabin heater fue action light bulb with a new unit (p	el refulator and noted no art # GE1385).	evidence of fuel leakage or staining	ng - next due at 4776.5 (ACTT).					
13) R+R all brake	wear pads with new units (part # strut with fluid and nitrogen to ma	066-06600).							
15) R+R RH main	strut with huid and hitrogen to ma gear uplock hook pivot bolt with	a new unit (part # NAS	gs. 464P6-29).						
I certify that this Ai	ircraft has been inspected in acco	ordance with an Operat	ion #4 inspection and was determine	ned to be in an airworthy condition.					
Shoreline Aviation,									
93 Old Colony Lan Marshfield, MA 02	1e 2050								
781-837-8521			Signed Edward	F Month					4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.
			Signed Cautory	Novak Jr. A+P 2832024 IA					1.) Removed Aux Fi
. I	I	t	Edward 2	NOVAK JI. ATP 2032024 IA	Т				Ops check normal.
					-				The above work was and is approved for
	-	AShoreline	Shoreline Aviation, ldc.		- 0				Shoreline Aviation, I
		AVIATION	Marshfield Municipal Airport		-				93 Old Colony Lane
		· and a final state of the stat	George Harlow Field (GHC) 93 Old Colony Lane						Marshfield, MA 020 781-837-8521
	_		Marshfield, MA 02050	1	_				
	4/4/2018 N414MF	Cessna 414	A, serial # 414A-0317	Aircraft Logbook					
	<ul> <li>Aircraft TT: 4680.80</li> <li>Conilots attitude avro slow :</li> </ul>	to errect Removed p/r	: 23-501-06-16(500B-36) s/n: T102	324P and installed OVH					T
	unit p/n: 23-501-06-16(500)	B-36) s/n: T375999J (O	VH By MidContinent CRS# OL2R06	61L, WO# 000327522)	-				+ ' '
	The above work was comp and is approved for return t		n current regulations of the Federal <i>i</i> accomplished.	Aviation Administration		_	1		
									T
	<ul> <li>Shoreline Aviation, Inc.</li> <li>93 Old Colony Lane</li> </ul>				-				+
	Marshfield, MA 02050 781-837-8521		112		_				
		Signe	4						6/22/2018 N414M
			Jason Pereira A&P	3389376	-				Hobbs Hours: 899.5 :: A
					_				C/W AD 2001-01-16 Par 4772.1
									The above work was con
									and is approved for return
									Shoreline Aviation, Inc. 93 Old Colony Lane
									Marshfield, MA 02050
									781-837-8521
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Shoreline Shoreli Page No. AVIATION Shoretine Aviation, Inc. AVIATI Page No. Marshield Municipal Airpor George Harlow Field (GHG) DATE DATE 93 Obl Colony Lane IRK arshfield, MA 02050 6/28/2018 N414MP 7/27/2018 Cessna 414A, serial # 414A-0317 N414MP Aircraft Logbook Cessn Hobbs Hours: 901.8 :: Aircraft TT: 4724.4 Hobbs Hours: 921.2 :: Aircraft TT: 4743.8 C/W 2004-21-05. Disabled cabin heat system per Paragraph 4 Removed LH Tire p/n: 650C81-5 s/n:6173; The above work was completed in accordance with current regulations of the Federal Aviation Administration 2.) C/W AD 2004-25-16R1 next due: July 201 and is approved for return to service for the work accomplished. The above work was completed in accordance Shoreline Aviation, Inc. and is approved for return to service for the we 93 Old Colony Lane Marshfield, MA 02050 Shoreline Aviation, Inc. 781-837-8521 93 Old Colony Lane Marshfield, MA 02050 781-837-8521 A&P 3389376 Sign Shorelin **WIATI** Shoreline Shoreline Aviation, Inc AVIATION Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marsheld, MA 02050 8/16/2018 944 N414MP Cessn Hobbs Hours: <del>393.54</del> Aircraft TT: 4765.10 Cessn N414MP Cessna 414A, serial # 414A-0317 Aircraft Logbook /2018 bbs Hours: 908.2 :: Aircraft TT: 4730.8 :: #1 Engine TT: 3866.0 :: #1 Engine TSMOH: 705.0 :: #1 Propeller TT: 705.0 :: #2 Propeller TT: Removed RH Tire s/n: 4084S00112 tire and in 15.0 :: #2 Engine TT: 3162.5 :: #2 Engine TSMOH: 705.0 :: Heater Hobbs: 475.9 414A M.M. Ch. Landing Gear. completed Operation #1 inspection items per the Cessna 414A Maintenance manual progressive care inspection form. The above work was completed in accordance C/W AD 2000-01-16, para. B on both engine exhaust systems and noted no defects - next due at 958.2 (hobbs). and is approved for return to service for the wo 2) R+R LH vacuum pump with a new unit (part # RAP442CW, serial # D9160. Shoreline Aviation, Inc. 3) C/W AD 2004-21-05 (cabin heater pressure decay test) and the heater passed. - next due 07/20 or heater hobbs 575.9. 93 Old Colony Lane 4) Repaired bonding wire at the center rudder hinge. Marshfield, MA 02050 5) R+R RH landing light assembly with an overhauled unit from AVLITE (part # 45-0148-09, serial # 652) - function check OK. See attached 8130-3 781-837-8521 form for more details. 6) Completed 50 hr. Special Inspection items. I certify that this Airframe has been inspected in accordance with an Operation #1 inspection and was determined to be in an eirworthy condition Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521 WIA' Edward J. Novak Jr. A+P 2832024 IA 9/20/2018 NA14MP Hobbs Hours: 958.3 :: Aircraft TT: 4780.9 :: #1 Engine TT: 39 NexAir Avionics LLC 246 SOUTH MEADOW ROAD GATE 6, HANGAR SW-1 PLYMOUTH, MA 02360 761.2 :: #2 Engine TT: 3218.7 : #2 Engine TSMOH: 761.2 :: LOG ID# 1370 30-August-2018 WO# 5306 AC TT 944.3 HOBBS 944.3 N414MP S/N 414A0317 CESSNA 414A Pg 1/1 Completed Operation #2 inpsection items per the Cessna 414A 1) C/W AD 2000-01-16, para b on the exhaust system per AD in exhaust pipes by cleaning the sealing surfaces of this connection ALTIMETER (PN: 5934PA SN: 1H229), PITOT, STATIC AND ALTITUDE REPORTING SYSTEMS HAVE BEEN TESTED AND FOUND TO BE IN COMPLIANCE WITH FAR43, APPENDIX E AND F, AS REQUIRED BY FAR 91.411. TESTED TO 30,000 2) CAW AD 2016-17-08 on the elevator trim hardware and noted no defects - next due at 1058.3 (hobbs). 3) Completed main battery capacity check and the battery passed the 51 minute capacity test at 54 minutes. 4) R+R all cabin life jackets with new units with date of manufacture 05/18. ALTIMETER (PN: 5934PA SN: R2415), PITOT, STATIC AND ALTITUDE REPORTING SYSTEMS HAVE BEEN TESTED AND FOUND TO BE IN COMPLIANCE WITH FAR43, APPENDIX E AND F, AS REQUIRED BY FAR 91.411. TESTED TO 30,000 5) R+R one broken roll pin on the pilot's seat with a new unit Completed the 6 month check to the cabin hand held fire extinguisher and noted no refects. 7) Reattached the RH rear cabin side wall armrest by adding a rivnut and screw in place of the serated pin and receptacle. TRANSPONDER (PN:011-00455-60 SN:84108536) HAS BEEN TESTED AND FOUND TO BE IN COMPLIANCE WITH FAR43, 8) Repaired malfunctioning annunciator lights by replacing the diode on the annunciator light logic board for the RH alternaotr out annunciator light. APPENDIX F, AS REQUIRED BY FAR 91,413 Annunciator panel now functioning normally. TRANSPONDER (PN:011-00490-00 SN:83747129) HAS BEEN TESTED AND FOUND TO BE IN COMPLIANCE WITH FAR43, APPENDIX F, AS REQUIRED BY FAR 91.413. I certify that this Airframe has been inspected in accordance with an Operation #2 inspection and was determined to be in an airworthy condition. NOTE WORK ORDER #5306 ON FILE. Shoreline Aviation, Inc. THE ABOVE WORK WAS COMPLETED IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE FEDERAL AVIATION 93 Old Colony Lane ATHENISTRATION, AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK ACCOMPLISHED. Marshfield, MA 02050 Bymin Sobulte 781-837-8521 N4OR087B BENJAMIN SCHULTZ TUTALS=Carry forward to nextrage

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a 414A, se	riat # 414A-0317	Aircraft Logbook	
2345 and ir	nstalled new tre same p/n, s/n:	60462043	
9/ACTT: 4	1843 8		
e with curre ork accomp	nt regulations of the Federal Av	viation Administration	
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and the second design of the s	vasur Fereira Aor 53	09370	
e )N	Shoreline Ariation, inc.		
	Marshilleld Musicipat Airport		
	George Harlov Fleid (GHG) 93 Old ColonyLane Marshtield, M/ 02050		
a 414A, ser	ial # 414A-0:17	Aircraft Logbook	2
nstalled nev	v <b>tire s/n: 81902351.</b> In referen	ice to the Cessna	1
e with curre ork accomp	nt regulationsof the Federal Av lished.	iation Administration	
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ed	1	$\rightarrow$	
	Jason Pereira A&P 33	89376	
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íne ION	Shoretine Avlation, Inc.		3 ° 7
	Marshfleid Municipal Airport George Hafow Field (CHG) \$3 Old Coltry Lane Marshfleid, MA 02050		1
sna 414A, i	serial # 414A-0317		Aircraft Logbook
22.2 :: #1	Engine TSNOH: 761.2 :: #1 bbbs: 476.0	Propeiler TT: 761.2 🙄 #	2 Propeller TT:
Maintenan	ce manual progressive care in	spection form.	
nstructilons	Repaired slight leakage at the rging the hardware. No other d	e first ball joint on PH on	gine inboard

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Shoreline			1	
Page No AVIATION Shorsline Aviation, Inc.			Page No.	AVIATION Shoreline Aviation, Inc.
Marshfield Municipal Airport George Harlow Fleid (GHG)				TO' Marshlield Municipal Airport
DATE 93 Old Colony Lana Marshfield, MA 02050	WORK		DATE	II George Harlow Field (GHG) SER 93 Old Colony Lane 34
9/28/2018 N414MP Cessna 414A, serial # 414A-0317 Aircraft Logbook				Marshfield. MA 02050           1/9/2019         N414MP         Cessna 414A, serial # 414A-0317         Aircraft   ophook
Hobbs Hours: 967.4 ;: Aircraft TT: 4790.0				Less na 414A, senal # 414A-0317 Aircraft Logbook
C/W with MEB89-3 Rev 2 Seat Back Reinforcement installation. The above work was completed in accordance with current regulations of the Federal Aviation Administration				Removed and Replaced LH Electric Fuel Pump, Removed p/p: 287-29s/p; 115-2222 and installed Over 5
and is approved for return to service for the work accomplished.				Company and a price and the transferred normal.
Shoreline Aviation, Inc.				The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.
93 Old Colony Lane Marshfield, MA 02050				Shoreline Aviation, Inc.
781-837-8521				
Signed				Marshfield, MA 02050 781-837-8521
Jason Pereira A&P 3389376				Signed
				Jason <sup>D</sup> ereira A&P 3389376
AVELATION Shoreline Aviation, Inc.				NexAir Avionics LLC 246 SOUTH MEADOW ROAD GATE 6, HAVGAR SW-1 PLYMOUTH, MA 02360
AVIATION Shoreline Aviation, Inc. Marshield Municipal Airport				LOG ID# 1583 01-February-2019 WO# 5553 AC TT 989.2 H0BBS 989.2
George Hadow Field (GHG) 93 Old Colony Lane				- N414MP S/N 414A0317 CESSNA 414A Pg 1 / 1 -
Marshfield, MA 02050		Î.		UPDATER OF TEA AL OUTTAINTY ANTAL COEDING FROM MERSION 5 12 TO VERSION 6 51 AND COM SPETMARE
10/9/2018 N414MP Cessna 414A, serial # 414A-0317 Aircraft Logbook				UPDATED GTN 750 #1 SN:12A011788 MAIN SOFTWARE FROM VERSION 5.13 TO VERSION 6.51 AND COM SOFTWARE FROM VERSION 2.13 TO VERSION 2.30 AND NAV SOFTWARE FROM VERSION 6.02 TO VERSION 6.03 AND GPS SOFTWARE FROM VERSION 5.0 TO VERSION 5.2 IN ACCORDANCE WITH SARMIN SERVICE BULLETIN 1879 REV B DATED
Hobbs Hours: 967.4 :: Aircraft TT: 4790.0 :: Engine TT: 3932.0				JANUARY 2, 2019.
Removed LH engine the pump s/n: 7918 and installed OVH hydraulic pump (OVH by Quality Aircraft Accessories, Inc CRS# 8YIR334Y) in reference to the Cessna 414 M.M. Section 9.				UPDATED GTN 750 #2 SN: 1ZA011798 MAIN SOFTWARE FROM VERSION 5.41 TO VERSION 6.51 IN ACCORDANCE WITH
The above work was completed in accordance with current regulations of the Federal Aviation Administration				NOTE: WORK ORDER 5553 ON FILE.
and is approved for return to service for the work accomplished.		-		THE ABOVE WORK WAS COMPLETED IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROXED FOR RETURN TO SERVICE FOR THE WORK ACCOMPLISHED.
Shoreline Aviation, Inc. 93 Old Colony Lane				- C - C - C - C - C - C - C - C - C - C
Marshtield, MA U2050	-			NAORO870 BENJAMIN SCHULTO
781-837-8521				
Jason Pereira A&P 3389376				
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Marshifeld Municipal Airport George Harlow Field (G)(G)		2		2/1/2019 N414MP Cessna 414A, serial # 414A-0317 Aircraft Lophonk
93 Old Colony Late Marshifeld, MA 02050				Hobbe Hours: 989.2 :: Aircraft TE 4811 8
12/4/2018 N414MP Cessna 414A, serial # 414A-0317 Airgraft ( ashack				1.) Removed #2 GTM750 closed 74044700 c
Hobbs Hours: 983.4 :: Aircraft TT: 4896.00				WO# RMA 1082/8001
1.) Annuciator Diode found to be damaged. Removed and Replaced DIODE. Ops check normal.		1		3.) Installed in aircraft and installed new POH supplement p/n: 190-01/07-A2_08
The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.				dated : 02/01/2019 Log 10/ 1583
Shoreline Aviation, Inc.				The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.
93 Old Colony Lane Marshfield, MA 02050				Shoreline Aviation, Inc.
781-837-8521				93 Otd Colony Lane
Signed				Marshfield, MA 02050 781-837-8521
Jason Pereira A&P 3389376				Signet
				Jasoi Pereira A&P 3389376
	0			
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	Page No Shoreline Aviation, Inc.
E AV 1711 TOTA CONSTRAINTS SWEETENS TO A	Marshilold Muricipal Arport
Marshfield Municipal Airport	George Hadow Field (CEC)
George Hantow Field (GHG) 93 Old Colony Lane	Manstrikels MA 02050
Marshifeld, MA 02050	7/31/2019 N414MP Cessna 4144 court
4/19/2019 N414MP Cesana 414A, serial # 414A-0317 Aircraft Logbook	Hours: 1064.9 :: Aircraft TT: 4887.5
Hobbs Hours: 994.1 :: Aircraft TT: 4816.7 :: #1 Engine TT: 3958.6 :: #1 Engine TSMOH: 797.6 :: #1 Propeller TT: 797.6 :: #2 Propeller TT:	1.) C/W Weight and Balance of aircreft. Due to the second
797.6 :: #2 Engine TT: 3255.1 :: #2 Engine TSMOH: 797.6 :: Heater Hobbs: 491.6	, and the event of the vertex and the times
Completed Operation #3 & #4 inspection items per the Cessna 414A Maintenance manual progressive care inspection form.	The above work was completed in percentance with the
1) CAN FAR 91.207(d) on the ELT and noted no defects - next due 04/20. ELT battery is due 11/19.	and is approved for return to service for the work accomplished.
2) C/W AD 2000-01-16, paragraphs B, C, & E to both engine exhaust systems per AD instructions and noted no defects. See separate A.D. Listing	Shoreline Aviation, Inc.
for next compliance due times.	93 Old Colony Lane
<ol> <li>Completed 6 month cabin fire extinguisher check and noted no defects.</li> <li>One user main betters seensity shack semicidated betters presented. Next due 04/20</li> </ol>	Marshfield, MA 02050
<ul> <li>4) One year main battery capacity check completed - battery passed. Next due 04/20.</li> <li>5) Completed the following Cessna Special inspection items: 50 hr., 600 hr/1 year, 800 hr &amp; 1 year.</li> </ul>	781-837-8521
6) R+R exhaust pipe clamp (pert # U10C062-262M) on the LH inboard exhaust pipe.	Simula
7) R+R LH tail pipe support bracket (part # 5650118-1).	Cigina
8) R+R lower rudder nose rib with a new rib (part # 5133000-12).	Jason Pereira A&P 3389376
9) C/W AD 2004-25-16R1 on the heater fuel regulator and noted no evidence of fuel leakage - next due at 4916.7 or 04/20.	
1 certify that this Engine has been inspected in accordance with an Operation #3 & #4 inspection and was determined to be in an airworthy condition.	
Shoreline Aviation, Inc.	
93 Old Colony Lane	
Marshfield, MA 02050	
Signed Calward J. Novak Jr. A+P 2832024 iA	Shoreline -
Signed Call and The will	MARSHFIELD MUNICPAL AIRPORT - KGHG
Edward J. Novak Jr. A+P 2832024 iA	93 OLD COLONY LANE
2 100 100m ,	MARSHFIELD, MA 02050
Shoreline	
AVIATION Shoreline Aviation. Inc.	Date: 9/03/2019: Aircraft: N41/MP: Type: C 414: 0/N: 44440047. 11 11
Marshfield Municipal Airport	Date: 9/03/2019; Aircraft: N414MP; Type: C-414; S/N: 414A0317; Hobbs: 1091.60; Total Time: 4914.20; LG -
George Harlow Field (GHG) 93 Old Colony Lane	
Marshfield, MA 02050	
7/2/2019 N414MP Cessna 414A, serial # 414A-0317 Aircraft Logbook	1.) C/W AD2000-16-01 PARA. B, NO DEFECTS NOTED AT THIS TIME. NEXT DUE ACTT: 4960.6,
Hobbs Hours: 1039.2 :: Aircraft TT: 4861.80	
C/W AD2000-16-01 para. B, no defects noted at this time. Next Due ACTT: 4911.80	THE ABOVE WORKWAS COMPLETED IN ACCORDANCE WITH THE SUF
The above work was completed in accordance with current regulations of the Federal Aviation Administration	THE ABOVE WORKWAS COMPLETED IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE
and is approved for return to service for the work accomplished.	FEDERAL AVIATION ADMINSTRATION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK
Shoreline Aviation, Inc.	
93 Old Colony Lane	Work Performed By:
Marshfield, MA 02050	Work Performed By: Certificate #: 3387376 & SP
781-837-8521	
Signed	* Shoreline
Jason Pereira A&P 3389376	AVIATION Shoreline Avisticn, inc.
	Marshitold Municipal Airport
AShoreline	George Harlow Field (GHG)
AVIATION Shoreline Aviation, inc.	83 Old Colony Lane Marshãeld, 144 02060
Marshilleld Municipal Airport	9/13/2019 N414MP
George Harlow Field (GHG) 39 Old Colony Lane	
Marshield. MA 02050	Hobbs Hours: 1091.6 :: Aircraft TT: 4914.2 :: #1 Engine TT: 4049.7 :: #1 Engine TSMOH: 888.7 :: #1 Propeiler TT: 888.7 :: #1Propeiler SMOH: 86.6 :: #2 Prop TT: 888.7 :: #2 Prop SMOH: 86.6 :: #2 Eng TT: 3346.2 :: #2 Eng TSMOH: 888.7
7/19/2109 N414MP Cessna 414A, serial # 414A-0317 Aircraft Lophock	Completed Operation #2 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form.
Hopps Hours: 1046.9 ** Aircraft TT: 4960.5 ** #4 E - 1	1) C/W AD 2000-01-16, Data b to both engine exhaust systems and noted no defacts. North the other CTT (Data of the transmission)
Engine TT: 2457.5 :: #2 Engine SMOH: 844.0	4/ VINT OF 4V97-69 TURLINE CADIN DESTER THEI VOIVE and found no evidence of fuel lockers and due of court of the vision of
Cessna 414A Inspection Operation 1	Y YELLY YELLY YELLY YELLY UN VERY WAR UNDER HEALTHINDER DIVID DESCRIPTION IN A detects were poled
1.) C/W Operation #1 inspection in reference to the Cessna 414A M.M. Progressive Care ispection, 2.) C/W Cessna 50 hr, Special inspection	4/ C/W 0 monul Cable file exemptioner check and found no defecte
2.) C/W Cessna 50 hr. Special inspection 3.) C/W Cessna 400 hr. Special inspection.	5) Removed JPI EDM-760 EGT/CHT display and installed a loaner unit from JPI. Original unit sent for repair.
The above work was operated in	i certify that this Airframe has been inspected in accordance with an Operation #2 inspection and was determined to be in an airworthy condition.
The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.	Shoreline Aviation, Inc.
and the work accomptioned.	93 Old Colony Lane
Shoreline Aviation, Inc.	Marshfield, MA 02050
93 Old Colony Lane Marshfield, MA 02050	781-837-8521 C.D. A.M. A
781-837-8521	Signed Lawan 1 Horah H
	Signed Signed Signed J. Novak Jr. A+P 2832024 IA
Signed	
Jason Persim ASD 2200070	

Pa Page No. SHORELINE 1.1 TOTAL TOTAL TIME SINCE TACH OR MARSHFIELD MUNICPAL AIRPORT - KGHG RECORDING 93 OLD COLONY LANE MARSHFIELD, MA 02050 DATE IN METER SERVICE OVERHAUL TIME Date: 10/08/2019; Aircraft: N414MP; Type: C-414; S/N: 414A0317; Hobbs: 1110.60; Total Time: 4933.20; LG Cycles: 40.00; TOT/ Engine 1 Type: TCM TSIO-520-NB, S/N: 518099, Time: 908.40; Engine 2, Type: TCM TSIO 520-NB, S/N: 290575-R, Time: 908.40 1.) Removed EDM760 p/n; 760000-6C-O-A-T s/n: 06466. Rebuilt (Altered) by J.P. Instruments, Inc CRS# PT1274NM. Installed rebuilt unit and ops checked normal. THE ABOVE WORKWAS COMPLETED IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINSTRATION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK ACCOMPLISHED. Certificate #: 338987645A Work Performed By SHORELINE 0 2 4 0 4 4 MARSHFIELD MUNICPAL AIRPORT - KGHG 93 OLD COLONY LANE MARSHFIELD, MA 02050 Date: 11/27/2019; Aircraft: N414MP; Type: C-414; S/N: 414A0317; Hobbs: 1125.10; Total Time: 4947.70; LG Cycles: 44.00; Engine 1 Type: TCM TSIO-520-NB, S/N: 518099, Time: 922.90; Engine 2, Type: TCM TSIO 520-NB, S/N: 290575-R, Time: Removed and installed battery kit P/N: S1840510-01 s/n: TM0000165721 which included battery p/n: 0141823 s/n: 1849 0299, THE ABOVE WORKWAS COMPLETED IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINSTRATION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK ACCOMPLISHED. Certificate #: 3389376 420 Work Performed By: DRELINE ELD MUNICPAL AIRPORT - KGHG DLONY LANE IELD, MA 02050 le: 12/12/2019; Aircraft: N414MP; Type: C-414; S/N: 414A0317; Hobbs: 1127.70; Total Time: 4950.30; LG Cycles: 46.00; Igine 1 Type: TCM TSIO-520-NB, S/N: 518099, Time: 925.50; Engine 2, Type: TCM TSIO 520-NB, S/N: 290575-R, Time: 25.50 1.) Removed p/n: MHJ-4003SR s/n: H-M111392 and installed OVH Starter p/n: MHJ-4003 s/n: H-T060580 (OVH By Hartzell Engine Technologies CRS# 1HZR769B W/O; M6656660). THE ABOVE WORKWAS COMPLETED IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINSTRATION AND IS APPROVED FOR RETURN TO SERVICE FOR THE WORK ACCOMPLISHED. 3389376 Azp Work Performed By Certificate #: SUB-TOTALS this page TOTALS—Carry forward to next page

DESCRIPTION OF WORK PERFORMED- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK	
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Shoreline WIATION

Shoreline Aviation, Inc.

Marshtield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshtiald. MA 02050 Cessna 414A, serial # 414A-0317

2/22/2020 N414MP

Hobbs Hours: 1135.7 :: Aircraft TT: 4958.3 :: Heater Hobbs: 498.3

Completed Operation #3 inspection items per the Cessna 414A Maintenance manual progressive care inspection form.

1) C/W AD 2000-01-16, para. b & d - no defects noted. Para b next due at 1185.7 (hobbs). Para d next due at 1635.7 (hobbs).

2) C/W AD 2016-17-08 on the elevator trim tab hardware and found no defects - next due at 1245.7 (hobbs).

3) R+R Emergency gear extension blowdown bottle after hydrostatic testing as shown on the attached paperwork. Filled bottle to 1800 psi with nitrogen.

4) R+R both brake discs with new units (part # RA164-06406), all brake pads (part # 066-06600), both heat shims (part # RA068-03100) and the LH tire (GYFSII 6.50x10 8pr).

5) R+R tail nav light assembly with a new LED unit (part # 01-0771554-03). R+R white position light bulb on the LH wing tip with a new bulb (part # W692). R+R ice light bulb with a new bulb (part # GE1385).

6) R+R GPU door assembly with a new unit (part # 0851878-1).

I certify that this Airframe has been inspected in accordance with an Operation #3 inspection and was determined to be in an airworthy condition.

Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521

Signed Edward & Montel

Edward J. Novak Jr. A+P 2832024 1A

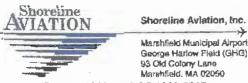
		Marshfield Municipal Airport George Harlow Fleid (GHG) 93 Old Colony Lane		
/26/2020 N414MP	Corena 414A e	Marshüeki, MA 02050 eria <b>i # 414A-0317</b>	Aircraft Logbook	
obbs Hours: 1135.7 :: Ai			Parolan Logovon	
		# RG24-20, serial # 41050681).		
he above work was compl dministration and is appro	eted in accordance with cu ved for return to service fo	urrent regulations of the Federal <i>i</i> or the work accomplished.	Aviation	
Shoreline Aviation, Inc. 3 Old Colony Lane Aarshfield, MA 02050 81-837-8521	Signed_	levand A Mova	he	
	Signea	Edward J. Novak Jr. A+P :	2832024 IA	
NexAir Avionics LLC 2 LOG ID# 2322 25-Augu N414MP S/N 414A031	ist-2020 WO# 6373	DAD GATE 6, HANGAR SW-1	PLYMOUTH, MA 02360	Pg 1 / 1
LOG ID# 2322 25-Augu N414MP S/N 414A03 THE ADC # 1 (PN:01.1-002 TESTED AND FOUND TO BE	ist-2020 WO# 6373 17 CESSNA 414A	OAD GATE 6, HANGAR SW-1 OT, STATIC AND ALTITUDE REPO 43, APPENDIX & AND F, AS REC		Pg 1/1
LOG ID# 2322 25-Augu N414MP S/N 414A03 THE ADC # 1 (PN:011-008 TESTED AND FOUND TO BE TO 30,000FT. THE CO-PILOT'S SIDE ALT HAVE BEEN TESTED AND FO 91.411. TESTED TO 30,000	IST-2020 WO# 6373 I7 CESSNA 414A I82-10 SN:20609420) PITH IN COMPLIANCE WITH FAR TIMETER (PN:5934PA-1 SN BUND TO BE 'IN COMPLIANC DOFT.	OT, STATIC AND ALTITUDE REPO 43, APPENDIX & AND F, AS REC 1:R2415) PITOT, STATIC AND AU E WITH FAR43, APPENDIX & AND	DRTING SYSTEMS HAVE BE QUIRED BY FAR 91.411. TITUDE REPORTING SYST D F, AS REQUIRED BY FA	Pg1/1 EN TESTED EMS R
LOG ID# 2322 25-Augu N414MP S/N 414A037 THE ADC # 1 (PN:011-002 TESTED AND FOUND TO BE TO 30,000FT. THE CO-PILOT'S SIDE ALT HAVE BEEN TESTED AND FO 91.411. TESTED TO 30,UK STANDBY ALTIMETER(PN:55 TESTED AND FOUND TO BE	IST-2020 WO# 6373 I7 CESSNA 414A I82-10 SN:20609420) PITH IN COMPLIANCE WITH FAR TIMETER (PN:5934PA-1 SN BUND TO BE 'IN COMPLIANC DOFT.	OT, STATIC AND ANTITUDE REPO 43, APPENDIX & AND F, AS REC	DRTING SYSTEMS HAVE BE QUIRED BY FAR 91.411. TITUDE REPORTING SYST D F, AS REQUIRED BY FA	Pg1/1 EN TESTED EMS R
LOG ID# 2322 25-Augu N414MP S/N 414A03 THE ADC # 1 (PN:011-002 TESTED AND FOUND TO BE TO 30,000FF. THE CO-PILOT'S SIDE ALT HAVE BEEN TESTED AND FO 91.411. TESTED TO 30,UC STANDBY ALTIMETER(PN:55 TESTED AND FOUND TO BE TO 30,000 FT.	IST-2020 WO# 6373 17 CESSNA 414A 182-10 SN:20609420) PITI IN COMPLIANCE WITH FAR TIMETER (PN:5934PA-1 SN UND TO BE 'IN COMPLIANC 100FT. 1034PA-1 SN:1H229), PITO IN COMPLIANCE WITH FAR (PN:031-00455-60 SN:84	OT, STATIC AND ALTITUDE REPO 43, APPENDIX & AND F, AS REC 1:R2415) PITOT, STATIC AND AU E WITH FAR43, APPENDIX & AND	DRTING SYSTEMS HAVE BE DUTED BY FAR 91.411 TITUDE REPORTING SYST D F, AS REQUIRED BY FA RTING SYSTEMS HAVE BEF QUTRED BY FAR 91.411. DER (PN:011-00490-00	Pg1/1 EN TESTED EMS R N TESTED
LOG ID# 2322 25-Augu N414MP S/N 414A037 THE ADC # 1 (PN:011-002 TESTED AND FOUND TO BE TO 30,000FT. THE CO-PILOT'S SIDE ALT AVE BLEN TESTED AND FO 31.411. TESTED TO 30,00 STANDBY ALTIMETER(PN:55 TESTED AND FOUND TO BE TO 30,000 FT. THE #1 ATC TRANSPONDER SN:83747129) HAS BEEN FAR 91.413. NOTE: WORK ORDER 6373 (	IST-2020 WO# 6373 IT CESSNA 414A IT CESSNA 414A IS2-10 SN:20609420) PITI IN COMPLIANCE WITH FAR ITMETER (PN:5934PA-1 SN UND TO BE IN COMPLIANC IN COMPLIANCE WITH FAR (PN:011-00455-60 SN:84 IESTED AND FOUND TO BE DN FILE.	OT, STATIC AND ALTITUDE REPO 43, APPENDIX & AND F, AS REC 10:R2415) PITOT, STATIC AND AL 11: WITH FAR43, APPENDIX E AND 11: STATIC AND ALTITUDE REPOR 43, APPENDIX E AND F, AS REC 10:8536) AND #2 ATC TRANSPOND	DRTING SYSTEMS HAVE BE QUIRED BY FAR 91.411. STITUDE REPORTING SYST D F, AS REQUIRED BY FA RTING SYSTEMS HAVE BEF QUIRED BY FAR 91.411. DER (PN:011-00490-00 PPENDIX F, AS REQUIRED	Pg1/1 EN TESTED EMS R N TESTED

Aircraft Logbook

Shoreline IATION Shoreline Avlation, Inc. 2 Marshfield Municipal Airport Coorge Darlow Field (CHC) 93 Old Colony Lane Marshfield, MA 02050 6/17/2020 Airtramp N414MP Cessna 414A, serial # 414A-0317 Hobbs Hours: 1180.5 :: Aircraft TT: 5003.1 :: #1 Engine TSMOH: 978.3 :: #1 Propeller TT: 978.3 :: #1Propeller SMOH: 176.2 :: #2 Propeller Engine 1 Logbook TT: 978.3 :: #2 Propeller SMOH: 176.2 :: #2 Engine TSMOH: 978.3 :: Heater Hobbs: 503.4 Completed Operation #4 inpsection items per the Cessna 414A Maintenance manual progressive care inspection form. Completed the following Special Inspections too: 50 hr., 500 hr., 600 hr/1 year, 1 year & 1000 hr. 1) C/W FAR 91.207(d) on the ELT and noted no defects - next due 06/21. ELT batt is due 11/25. 2) C/W AD 2000-01-16 (paragraphs b, c & e) and noted no defects. See updated A.D list for next compliance times. 3) C/W AD 84-26-02 by installing two new paper engine air filter elements (part # P12-8156) - next diue at 1680.5 (hobbs) or 5503.1 (ACTT). 4) C/W AD 2004-21-05 on the cabin heater (pressure decay test) and the heater passed - next due 06/22 or heater hobbs 603.4. 5) C/W AD 2004-25-16R1 on the heater fuel valve and noted no evidence of fuel leakage - next due 06/21 or 1280.5 (hobbs) or 5103.1 (ACTT). 6) Installed a Stratus USB power outlet (part # 153010-000029) in the upper LH instrument panel that is powered through a 2 amp circuit breaker added to an existing unused circuit breaker hole on the main airplane bus. 7) Completed 6 month check of the cabin fire extinguisher. 8) Replaced two failed static discharge wicks with new ones on the RH aileron and the rudder. 9) Repaired broken terminal end for the LH wing tip white position light. 10), R+R the LH fuel cap o-ringf iwht a new MS29513-338 o-ring. 11) Replaced the polyurethane anti-chare tape (part # 867 I-2) on all cowi flanges where needed to prevent black streaks from forming. I certify that this Aircraft has been inspected in accordance with an Operation #4 inspection and was determined to be in an airworthy condition. Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521 Signed\_ Colward Morth,

dward J. Novak Jr. A+P 2832024 IA

Aircraft Logbook



Shoreline Avlation, Inc.

10/16/2020 N414MP Cessna 414A, serial # 414A-0317

Hobbs Hours: 1238.2 :: Aircraft TT: 5060.8 :: #1 Engine TT: 4197.0 :: #1 Engine TSMOH: 1036.0 :: #1 Propeller TT: 1036.0 :: #1Propeller SMOH: 233.9 :: #2 Propeller TT: 1036.0 :: #2 Propeller SMOH: 233.9 :: #2 Engine TT: 3493.5 :: #2 Engi TSM0H-1036.0 H # 511.0 Completed Operation #1 injsection items per the Cessna 414A Maintenance manual progressive care inspection form.

1) C/W AD 2000-01-16, para b to both engine exhaust systems. No defects noted on RH engine. LH engine tailpipe support bracket rivets were replaced with new rivets (old ones were loose). No other defects were noted. Para b of this AD is next due at hobbs 1288.2.

2) CAV AD 2016-17-08 on the elevator trim tab hardware and noted no defects - next due at hobbs 1348.2 (ACTT 5170.8).

C/W 500 hr. Cessna Special Insp items and noted no defects.

4) Removed existing wing tip mounted Grimes nav/strobe light units and the associated strobe light power supplies. installed new Whelen OR600 nav/strobe light assemblies (p/n 01-0771733-11 s/n 03533 and p/n 01-0771733 -12 s/n 03600) in the same locations as the removed units and connected to the existing airplane wiring. Updated weight and balance to reflects these changes.

5) Installed 3 new cabin fan motor support mounts (part # 95D07-1) at the inlet to the cabin heater.

6) R+R UMA light ring on the standby attitude gyro on the pilot's panel with a new light ring (part # 2-31-W). Function check OK.

Repaired the rudder bonding wire at the center rudder hinge.

I certify that this Airtrame has been inspected in accordance with an Operation #1 inspection and was determined to be in an airworthy condition.

Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521

Signed\_ Colward & Mow

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		AVIATION	Shoreline Avlation, Inc.		
DATE	٤		Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050		VORK
	- 11/17/2020 N414MP		erial # 414A-0317	Aircraft Logbook	
	Hobbs Hours: 1256.7 :: Aird		d repacked the wheel bearings.		
	The above work was comple Administration and is approv	ed in accordance with cu	rrent regulations of the Federal A	viation	
	Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521	<i>û</i>	wand & Morth A.		
	-	Signed 944	· ·		
			Edward J. Novak Jr. A+P 2	832024 IA	
-		- 1-			
	Nr Avionics LLC 246 SOUTH M ID# 2323 25-August-2020 W0 MP S/N 414A0317 CESSN		6, HANGAR SW-1 PLYMOUTH 7	MA 02360 Pg 1 / 1	
	D CARMIN CEOR DED (NED COOR D				
	D GARMIN GEOO PFO/MFD FROM SC RMED IAW GARMIN SERVICE BULLE	TIN 1937 REV A. OPS C	O LATEST VERSION LEVEL 7.37. HECK GOOD.	ALL WORK	
	WORK ORDER 6373 ON FILE.				
ADMIN3	OVE WORK WAS COMPLETED IN ACC STRATION AND S APPROVED FOR	ORDANCE WITH THE CURR RETURN TO SERVICE FOR	ENT REGULATIONS OF THE FEDER THE WORK ACCOMPLISHED.	AL AVIATION	
11	1 Mars	ALCONT TO SMALLE FOR	THE WORK ACCOMPLISHED.		3.
N4OR08	78 COLLIN MORIARTY				
					)
		AVIATION	Shoreline Aviation, Inc.		
		in concession, such as the local diversion of the	George Harlow Field (GHG)		
			93 Old Colony Lane		
12/28/2020	N414MP		93 Old Colony Lane Marshfield, MA 02050 IA, serial # 414A-0317		_
Hobbs Hou Engine TSM Completed	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per	:: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte	93 Old Colony Lane Marshfield, MA 02050 4A, serial # 414A-0317 71.0 :: #1Propeller SMOH: 268.		_
Hobbs Hou Engine TSM Completed 1) Completed 2) C/W AD	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per led 50 hr. Special Inspection items 2000-01-16 (para b) on the exhau	:: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte s. ist and found no defects.	93 Old Colony Lane Marshfield, MA 02050 4A, serial # 414A-0317 71.0 :: #1Propeller SMOH: 268. mance manual progressive care i Next due at 1323.2.	nspection form.	_
Hobbs Hou Engine TSM Completed 1) Complet 2) C/W AD 3) C/W AD	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per ted 50 hr. Special Inspectiion items 2000-01-16 (para b) on the exhau 2004-25-16R1 on the cabin heate	:: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte 5. ist and found no defects. In fuel valve and found no	93 Old Colony Lane Marshfield, MA 02050 4A, serial # 414A-0317 71.0 :: #1Propeller SMOH: 268. mance manual progressive care i Next due at 1323.2. defects Next due at 1373.2 of	nspection form.	_
Hobbs Hou Engine TSM Completed 1) Complet 2) C/W AD 3) C/W AD 4) Complet 5) Complet 6) R+R tac 7) Swappe	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per led 50 hr. Special Inspectiion items 2000-01-16 (para b) on the exhau 2004-25-16R1 on the cabin heater led 6 month fire extinguisher check led 2 year compass accuracy check hometer (part # 511-O-RAM, seria d LH & RH JPI TIT probes for trout	: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte 5. ist and found no defects. r fuel valve and found no c and found no defects. k and found do defects. i # 1570) with and O/H ui bleshooting purposes.	93 Old Colony Lane Marshfield. MA 02050 <b>IA, serial # 414A-0317</b> 71.0 :: #1Propeller SMOH: 268. mance manual progressive care in Next due at 1323.2. defects Next due at 1373.2 of Next due 06/21. Next due 12/22. hit from Consolidated Instrument	nspection form. 12/21.	H: 268.9 :: #2
Hobbs Hou Engine TSM Completed 1) Complet 2) C/W AD 3) C/W AD 4) Complet 5) Complet 6) R+R tao 7) Swappe 8) Installed 9) Repaire	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per led 50 hr. Special Inspection items 2000-01-16 (para b) on the exhau 2004-25-16R1 on the cabin heater ed 6 month fire extinguisher check led 2 year compass accuracy check hometer (part # 511-O-RAM, seria d LH & RH JPI TIT probes for trout a new FEN118 gas cylinder for the d small crack in the LH outer aft ext	: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte s. st and found no defects. If fuel valve and found no c and found no defects. If and found do defects. If # 1570) with and O/H un bleshooting purposes. If LH aft nose baggage d dge of the fiberglass wing	93 Old Colony Lane Marshfield, MA 02050 <b>IA, serial # 414A-0317</b> 71.0 :: #1Propeller SMOH: 268. mance manual progressive care in Next due at 1323.2. defects Next due at 1373.2 of Next due 06/21. Next due 12/22. nit from Consolidated Instrument oor. tip about 8" from the trailing edg	nspection form. 12/21. - see atlached 8130-3 f	H: 268.9 :: #2
Hobbs Hou Engine TSM Completed 1) Complet 2) C/W AD 3) C/W AD 4) Complet 5) Complet 6) R+R tao 7) Swappe 8) Installed 9) Repaire 10) Service	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per led 50 hr. Special Inspection items 2000-01-16 (para b) on the exhau 2004-25-16R1 on the cabin heater de 6 month fire extinguisher check led 2 year compass accuracy check hometer (part # 511-O-RAM, seria d LH & RH JPI TIT probes for trout a new FEN118 gas cylinder for th	: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte s. st and found no defects. r fuel valve and found no c and found no defects. I # 1570) with and O/H un bleshooting purposes. e LH aft nose baggage d dge of the fiberglass wing ance manual instructions	93 Old Colony Lane Marshfield, MA 02050 <b>IA, serial # 414A-0317</b> 71.0 :: #1Propeller SMOH: 268. mance manual progressive care in Next due at 1323.2. defects Next due at 1373.2 of Next due 06/21. Next due 06/21. Next due 12/22. nit from Consolidated Instrument oor. tip about 8" from the trailing edg	nspection form. 12/21. - see atlached 8130-3 f e.	H: 268.9 :: #2
Hobbs Hou Engine TSM Completed 1) Complet 2) C/W AD 3) C/W AD 4) Complet 5) Complet 6) R+R tao 7) Swappe 8) Installed 9) Repaire 10) Service I certify tha	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per led 50 hr. Special Inspection items 2000-01-16 (para b) on the exhau 2004-25-16R1 on the cabin heater ed 6 month fire extinguisher check led 2 year compass accuracy check hometer (part # 511-O-RAM, seria d LH & RH JPI TIT probes for trou a new FEN118 gas cylinder for th d small crack in the LH outer aft er ed nose strut to 65 psi per mainter	: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte s. st and found no defects. r fuel valve and found no c and found no defects. I # 1570) with and O/H un bleshooting purposes. e LH aft nose baggage d dge of the fiberglass wing ance manual instructions	93 Old Colony Lane Marshfield, MA 02050 <b>IA, serial # 414A-0317</b> 71.0 :: #1Propeller SMOH: 268. mance manual progressive care in Next due at 1323.2. defects Next due at 1373.2 of Next due 06/21. Next due 06/21. Next due 12/22. nit from Consolidated Instrument oor. tip about 8" from the trailing edg	nspection form. 12/21. - see atlached 8130-3 f e.	H: 268.9 :: #2
Hobbs Hou Engine TSM Completed 1) Complet 2) C/W AD 3) C/W AD 4) Complet 5) Complet 6) R+R tac 7) Swappe 8) Installed 9) Repaire 10) Service I certify tha	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per ted 50 hr. Special Inspection items 2000-01-16 (para b) on the exhau 2004-25-16R1 on the cabin heate red 6 month fire extinguisher check ted 2 year compass accuracy check hometer (part # 511-O-RAM, seria d LH & RH JPI TiT probes for trou a new FEN118 gas cylinder for th d small crack in the LH outer aft er ad nose strut to 65 psi per mainten this Aircraft has been inspected i wiation, Inc. my Lane MA 02050	: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte s. st and found no defects. r fuel valve and found no c and found no defects. I # 1570) with and O/H un bleshooting purposes. e LH aft nose baggage d dge of the fiberglass wing ance manual instructions	93 Old Colony Lane Marshfield, MA 02050 <b>IA, serial # 414A-0317</b> 71.0 :: #1Propeller SMOH: 268. mance manual progressive care in Next due at 1323.2. defects Next due at 1373.2 of Next due 06/21. Next due 06/21. Next due 12/22. nit from Consolidated Instrument oor. tip about 8" from the trailing edg eration #2 inspection and was de	nspection form. 12/21. - see attached 8130-3 f e. termined to be in an aim	H: 268.9 :: #2
Hobbs Hou Engine TSM Completed 1) Complet 2) C/W AD 3) C/W AD 3) C/W AD 4) Complet 5) Complet 6) R+R tac 7) Swappe 8) Installed 9) Repaire 10) Service 1 certify tha Shoreline A 93 Old Cold Marshfield,	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per ted 50 hr. Special Inspection items 2000-01-16 (para b) on the exhau 2004-25-16R1 on the cabin heate red 6 month fire extinguisher check ted 2 year compass accuracy check hometer (part # 511-O-RAM, seria d LH & RH JPI TiT probes for trou a new FEN118 gas cylinder for th d small crack in the LH outer aft er ad nose strut to 65 psi per mainten this Aircraft has been inspected i wiation, Inc. my Lane MA 02050	: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte s. st and found no defects. r fuel valve and found no c and found no defects. I # 1570) with and O/H un bleshooting purposes. e LH aft nose baggage d dge of the fiberglass wing ance manual instructions	93 Old Colony Lane Marshfield, MA 02050 <b>IA, serial # 414A-0317</b> 71.0 :: #1Propeller SMOH: 268. mance manual progressive care in Next due at 1323.2. defects Next due at 1373.2 of Next due 06/21. Next due 12/22. nit from Consolidated Instrument oor. tip about 8" from the trailing edg eration #2 inspection and was de Signed <i>Luww</i>	nspection form. 12/21. - see attached 8130-3 f e. termined to be in an aim	H: 268.9 :: #2 orm for more details. worthy condition.
Hobbs Hou Engine TSM Completed 1) Complet 2) C/W AD 3) C/W AD 3) C/W AD 4) Complet 5) Complet 6) R+R tac 7) Swappe 8) Installed 9) Repaire 10) Service 1 certify tha Shoreline A 93 Old Cold Marshfield,	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per ted 50 hr. Special Inspection items 2000-01-16 (para b) on the exhau 2004-25-16R1 on the cabin heate red 6 month fire extinguisher check ted 2 year compass accuracy check hometer (part # 511-O-RAM, seria d LH & RH JPI TiT probes for trou a new FEN118 gas cylinder for th d small crack in the LH outer aft er ad nose strut to 65 psi per mainten this Aircraft has been inspected i wiation, Inc. my Lane MA 02050	: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte s. st and found no defects. r fuel valve and found no c and found no defects. I # 1570) with and O/H un bleshooting purposes. e LH aft nose baggage d dge of the fiberglass wing ance manual instructions	93 Old Colony Lane Marshfield, MA 02050 <b>IA, serial # 414A-0317</b> 71.0 :: #1Propeller SMOH: 268. mance manual progressive care in Next due at 1323.2. defects Next due at 1373.2 of Next due 06/21. Next due 12/22. nit from Consolidated Instrument oor. tip about 8" from the trailing edg eration #2 inspection and was de Signed <i>Luww</i>	nspection form. 12/21. - see attached 8130-3 f e. termined to be in an aim	H: 268.9 :: #2 orm for more details. worthy condition.
Hobbs Hou Engine TSM Completed 1) Complet 2) C/W AD 3) C/W AD 4) Complet 5) Complet 6) R+R tao 7) Swappe 8) Installed 9) Repaire 10) Service 1 certify tha Shoreline A 93 Old Colo Marshfield,	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per ted 50 hr. Special Inspection items 2000-01-16 (para b) on the exhau 2004-25-16R1 on the cabin heate red 6 month fire extinguisher check ted 2 year compass accuracy check hometer (part # 511-O-RAM, seria d LH & RH JPI TiT probes for trou a new FEN118 gas cylinder for th d small crack in the LH outer aft er ad nose strut to 65 psi per mainten this Aircraft has been inspected i wiation, Inc. my Lane MA 02050	: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte s. st and found no defects. r fuel valve and found no c and found no defects. I # 1570) with and O/H un bleshooting purposes. e LH aft nose baggage d dge of the fiberglass wing ance manual instructions	93 Old Colony Lane Marshfield, MA 02050 <b>IA, serial # 414A-0317</b> 71.0 :: #1Propeller SMOH: 268. mance manual progressive care in Next due at 1323.2. defects Next due at 1373.2 of Next due 06/21. Next due 12/22. nit from Consolidated Instrument oor. tip about 8" from the trailing edg eration #2 inspection and was de Signed <i>Luww</i>	nspection form. 12/21. - see attached 8130-3 f e. termined to be in an aim	orm for more details. worthy candition.
Hobbs Hou Engine TSM Completed 1) Complet 2) C/W AD 3) C/W AD 3) C/W AD 4) Complet 5) Complet 6) R+R tac 7) Swappe 8) Installed 9) Repaire 10) Service 1 certify tha Shoreline A 93 Old Cold Marshfield,	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per ted 50 hr. Special Inspection items 2000-01-16 (para b) on the exhau 2004-25-16R1 on the cabin heate red 6 month fire extinguisher check ted 2 year compass accuracy check hometer (part # 511-O-RAM, seria d LH & RH JPI TiT probes for trou a new FEN118 gas cylinder for th d small crack in the LH outer aft er ad nose strut to 65 psi per mainten this Aircraft has been inspected i wiation, Inc. my Lane MA 02050	: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte s. st and found no defects. r fuel valve and found no c and found no defects. I # 1570) with and O/H un bleshooting purposes. e LH aft nose baggage d dge of the fiberglass wing ance manual instructions	93 Old Colony Lane Marshfield, MA 02050 <b>IA, serial # 414A-0317</b> 71.0 :: #1Propeller SMOH: 268. mance manual progressive care in Next due at 1323.2. defects Next due at 1373.2 of Next due 06/21. Next due 12/22. nit from Consolidated Instrument oor. tip about 8" from the trailing edg eration #2 inspection and was de Signed MWMM Edv	nspection form. 12/21. - see attached 8130-3 f e. termined to be in an aim	H: 268.9 :: #2 orm for more details. worthy condition.
Hobbs Hou Engine TSM Completed 1) Complet 2) C/W AD 3) C/W AD 3) C/W AD 4) Complet 5) Complet 6) R+R tao 7) Swappe 8) Installed 9) Repaired 10) Service 10) Service 10) Service 11 certify tha Shoreline A 93 Old Colo Marshfield,	rs: 1273.2 :: Aircraft TT: 5095.8 MOH: 1071.0 :: Heater Hobbs: 52 Operation #2 inspection items per ted 50 hr. Special Inspection items 2000-01-16 (para b) on the exhau 2004-25-16R1 on the cabin heate red 6 month fire extinguisher check ted 2 year compass accuracy check hometer (part # 511-O-RAM, seria d LH & RH JPI TiT probes for trou a new FEN118 gas cylinder for th d small crack in the LH outer aft er ad nose strut to 65 psi per mainten this Aircraft has been inspected i wiation, Inc. my Lane MA 02050	: #1 Engine TSMOH: 10 7.8 the Cessna 414A Mainte 5. ist and found no defects. ist and found no defects. ist and found do defects. i # 1570) with and O/H up bleshooting purposes. e LH aft nose baggage d age of the fiberglass wing ance manual instructions in accordance with an Option SUB-TOTALS	93 Old Colony Lane Marshfield, MA 02050 <b>IA, serial # 414A-0317</b> 71.0 :: #1Propeller SMOH: 268. mance manual progressive care in Next due at 1323.2. defects Next due at 1373.2 of Next due 06/21. Next due 12/22. nit from Consolidated Instrument oor. tip about 8" from the trailing edg eration #2 inspection and was de Signed MWMM Edv	nspection form. 12/21. - see attached 8130-3 f e. termined to be in an aim	H: 268.9 :: #2 orm for more details. worthy condition.

	ATION	DESCRIPTION OF WORK PERFORMED- SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
LOGBOOI AIRFR		brought forward from previous page
Name: Dan Bawabe W.O: 11178 Date: 1/4/2021	A/C: N414MP Hobbs Time: 1277.6 AC S/N: 414A0317	
Removed LH wing landing light assy., did not trip. Inspected light assy. and corrosion from light terminals, found 2 loose. Installed 2 new terminals, reass light assy. Performed ops check, ops cl several times. No With respect to the work performed a return to se	turned power on and reset C/B. C/B l partially disassembled. Cleaned terminals on wire harness burnt and tembled light assy, and reinstalled heck good. Cycled light on and off defects noted. bove, this aircraft is approved for	
Signature:	A&P 16629146	
FlightLevel Norwood 209 Access Rd., Norw		
	AVIATION	Shoreline Aviation, Inc. Marshield Municipal Airport George Harlow Field (GHG)
3/24/2021 N414MP	Cessna 41/	93 Old Colony Lane Marshfield, MA 02050 IA, serial # 414A-0317 Aircraft Logbook
	5136.7 :: #1 Engine TSMOH: 11	11.9 :: #1Propeller SMOH: 309.8 :: #2 Propeller SMOH: 309.8 :: #2
<ol> <li>Installed new Whelen LED landing</li> <li>Installed all new propeller heat slip</li> <li>installed the following new o-rings</li> <li>seal. Function check and leak check</li> <li>C/W AD 2000-01-16, para. B on the</li> <li>bow. No other defects noted. Para</li> <li>Rewired the cabin lights so that the</li> </ol>	and taxi light bulbs (part #'s 01- ring brushes on both engines (R in the RH main gear actuating cy landing gear system OK. the exhaust system. Installed a ne B is next due at 1364.1 (hobbs). the cabin reading lights now will on relocating the power wire form th	enance manual progressive care inspection form. 0771833-25 (taxi light) and 01-0790750-20 (landing lights). AB40012 (2 ea.) on RH side & RAB40189 (2 ea.) on the LH side. tinder: MS28775-130, 141 & 120 (one of each) and one new S30681-220 we pipe support clamp (part # 2266C062-262M) on the outboard LH collector by work when the battery mester switch is on by adding a new 7277-2-5 circuit e still existing "Cabin Lights" circuit breaker to this new one.
7) C/W AD 2016-17-08 on the elevate 3) Installed a new NAS1474A08 seal	or trim tab hardware and found need nutplate for the access panel of	
I certify that this Airframe has been in Shoreline Aviation, Inc. 93 Old Colony Lane Marshfield, MA 02050 781-837-8521	spected in accordance with an O	Signed John E. Sheehan A+P 3439269 IA
		ALS this page Carry forward to next page

## Section 1: Airframe Log

DATE	AI	RTIME		IGS / CYCLES	
1 1	DAILY TOTAL	TOTAL	DAILY	TOTAL	DETAILS OF TASK
	HRS MIN	HOURS MIN	TOTAL		(INSPECTION, REPAIRS & REPLACEMENT)
CARRIED FORWARD		<u> </u>			
			AVIA'	eline TION	Shoreline Aviation, Inc.
		-		1	Marshfield Municipal Airport
					George Harlow Field (GHG) 93 Ord Colomy Lane Marshrifeld, MA 02050
/24/2021	N414MP		Ce	essna 414A, se	rial # 414A-0317 Aircraft Logbook
lobbs Hours: 137 SMOH: 1174.9	7.1 :: Aircraft	.TT: 5199.7 :: #1E		,	#1Propeller SMOH: 372.8 :: #2 Propeller SMOH: 372.8 :: #2 Engine
ompleted Operation	tion #4 inspect	ion items per the C inspection items: 1	essna 414	A Maintenance	manual progressive care inspection form.
C/W FAR 91.20	)7(d) on the EL	T and noted no def	fects - nex	t due 06/22. EL	T batt is due 11/25.
) C/W AD 2000-0	)1-16 (paragra <sub>l</sub>	phs B,C and E) and	noted no	defects.	uel leakage prext due 06/22 or 147 1.1 (hopos) or ACTT 5299.7.
certify that this A	irçrafi has bee	n inspected in acco	rdance wi	th an Operation	#4 inspection and was/determined to be in an Airworthy condition.
					Signed John E. Sbeehan A+P 3439269 IA
			[		
	, ,		Shorel	ina	_
		_ <u>_</u>	VIAT	ION	Shoreline Aviation, Inc.
					Marshfield Municipal Airport
					George Harlow Fleid (GHG)
3/2021	1414MP		Ces	sna 414A, seri	All # 414A-0317 Aircraft Logbook
bbs Hours: 1411 gine TSMOH: 12	.0 :: Aircraft ]	TT: 5233.6 :: #1 Ei	ngine TSN	IOH: 1208.8 ::	#1Propeiler SMOH: 406.7 :: #2 Propeller SMOH: 406.7 :: #2
gine realern. 12	ob.o neate	1 HODDS: 570,7			manual progressive care inspection form.
C/W AD 2000-0	1-16n (para b)	to both engine exh:	aust syste	ms and found n	o defects
R+R LH cockpit	sidewall armre	st plastic piece with	n a ne unit	t (nart <b>#</b> P51190	357_43_1 R)
or with the vication	on the fuel to pin Inspections	and Type B Wing i	AD Instru	ictions and foun is per airplane n	no defects - next due at hobbs 2011.0 or ACTT 5833.6.
NOTT 0433.0,		ection items per ain			
Completed 600 I	nr special inspe	ection items per ain	olane mai	ntenance manu:	
Installed a new L	-08 on the ele .H main tire (G	vator trim tab hardv YFS part # 650C81	vare and f  -5 - renac	found no defects	s - next due at 1521.0 (hobbs).
ertify that this Airf	rame has beer	n inspected in acco	rdance wi	th an Operation	#1 inspection and was determined to be in an airworthy condition.
					Signed advall AMANA
	A				Edward J. Novak Jr. A+P 2832024 IA
	F	LIGHTL VIAT	EVE	L 📘 🕇	
	A	ΥΙΑΤ	ΙΟ	N +	
	LOGB	OOK ENTF	RA I		
	A	AIRF <u>RAME</u>			
Name: Dan Ba	awabe		A/C:	: N414MP	
W.O: 11446 Date: 8/2/2021			AC S/N-2	414A0317	
		<u>I.</u>			
		wheel assembly, and t -006, and tube, P/N 3			
		ircrafi, took aircraft o		1. Instance	
With respect	to the work perf	ormed above, this air	craft is app	roved for	
		um to service.	-17		
Signatur	e:		A&P 4222	2858	CARRY FORWARD to Top of Next Page
Ĭ	E.c.	exander Pruitt			
		rwood LLC - Mainte			
		d., Norwood, MA 02			

1a

					1b
		AVIATION	Shoreline Aviation, Inc.		
			Marshfield Municipal Airport		
			George Harlow Field (GHG) 93 Old Colony Lane		
-			Marshfield, MA 02050		ICENCE:
	12/7/2021 N414MP	Cessna 414A, seria		Aircraft Logbook	AMEor MO/ACA
-	Hobbs Hours: 1456.7 :: Aircraft TT: 421.5 :: #2 Engine TSMOH: 1223.6		1223.6 :: #1Propener SMOH: 42	1.5 11 #2 Propetter SMOH:	
	Completed Operation #2 inpsection i		intenance manual progressive care	inspection form.	
	1) Completed 50 hr. Special Inspect	ion items.			
	<ol> <li>C/W AD 2000-16-01, para. B to b</li> <li>C/W AD 2004-25-06R1 on the ca</li> </ol>	oth engine exhaust systems an	id found no defects. Next due at 1	506.7 (hobbs)	
	4) Repaired clamp connection for th	e ducting at the inlet of the cabi	in heater.		
	5) Installed two new voltage regulate	ors (part # 9910126-3). Comple	eted paralleling adjustment per mai	ntenance manual with	1
	satisfactory results. 6) Installed a new flap hinge half (pa	nt # 0825000-57) on the LH inb	oard flap.		
	7) Installed 4 new NAS1474A08 sea	ied nutplates at the fuselage be	elly panel just behind the nose whe		
	I cartify that this Aircraft has been ins	pected in accordance with an C	Operation #2 inspection and was d	etermined to be in an	
	airworthy condition.				
	Shoreline Aviation, Inc.				
	93 Old Colony Lane Marshfield, MA 02050			Gall	
	781-837-8521		Edward & Nor	11	
	-	Signed		nt	
	_		Edward J. Novak Jr. A	+P 2832024 IA	
		El anoliza o			
	-	AVIATION	Shoreline Avlation, Inc.		
			Marshfield Municipal Airpor		
			George Harlow Field (GHG)		
0			93 Old Colony Lane Manshfield, MA 02050		
	3/7/2022 N414MP	Cessna	414A, serial # 414A-0317		Aircraft Logbo
-	Hobbs Hours: 1501.6 :: Aircraft TT:		1299.4 :: #1Propeller SMOH: 49	7.3 :: #2 Propeller SMOH: 4	97.3 :: #2
	Engine TSMOH: 1299.4 :: Heater F Completed Operation #3 inpsection i		intenance manual accoressive care	inspection form	
	1) C/W AD 2000-01-06, para b to be				
	<ol><li>Completed 100 hr. Vacuum pump</li></ol>	wear check to both vacuum p	umps and found both pumps to be	above the minimum wear lim	nits.
	<ol> <li>Installed a repaired RH elevator ( more details. C/W AD 2016-17-08 b</li> </ol>				
	5334.2 (ACTT) or 03/23.	y instanny new unit tao too en	a attachment hardware (boxt, hut, t	valitions de cotter pary. Hexe c	
	4) Completed main battery capacity		read		
	<ul> <li>5) Completed 6 month cabin fire exit</li> <li>6) Installed a serviceable interior with</li> </ul>			mergeny exit window: Transi	ferred the existin
1.00	leather trim covering from the olkd p	arl to the replacement one.			
	<ol> <li>Repaired the RH aft facing seat a 5119233-4).</li> </ol>	imrest latching mechanism by	Installing a new 5119219-10 armre	est lock and a new armitest su	ippon (part #
	8) C/W AD 2004-21-05 on the cabin	heater pressure decay test and	d the combustion air pressure swit	ch and found no defects. Ne	xt due at heater
	<ul> <li>hobbs 701.9 or 03/24.</li> <li>9) Replaced the existing Ameri-King</li> </ul>	28v to 14v nower converter lor	cated beceath the floor near the en	nemency exit with a new Mid-	-Continent
	Instuments TC120 Power converter			indigency exit man a new tina	<b>Oominon</b>
	I certify that this Aiframe has been in	spected in accordance with an	Operation #3 inspection and was	determined to be in an airwor	thy condition.
			Signed Colly al	4 grow g	
	· · · · · · · · · · · · · · · · · · ·		E	ward J. Novak Jr. A+P 2832	2024 IA
		Shoreline	Chamling Asiation bus		-
		AVIATION	Shoreline Aviation, Inc.		
			Marshileld Municipal Airport George Harlow Field (GHG)		
		-user -	83 Old Colony Lane		
1	4/1/2022 N414MP	Cessna 414	Marshfield, MA 82050 IA, serial # 414A-0317	Aircraft Log	abook
	Hobbs Hours: 1508.8			,	
		orque tube end fitting (part # 50	35005-3) per maintenance manual	instructions. Existing taper r	oin
	was reused. Elevator up/dow	in travel checked good. Elevate	or trim tab up/down travel checked	OK.	
		فممعه الملحظ المعا	egulations of the Federal Aviation A		ed for
	return to service for the work	accomplished.	Signed Edward MM	out 1/	

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(	Se		AVIATION	Shoreline Avlation, Inc.	
1	Ĵ			Marsh/leki Municipal Airport George Harlow Fletit (GHG) 93 Old Colony Lane	-
		6/3/2022 N414MP	Cessna 414A, se	Manshfield, MA 02060 erial # 414A-0317	Aircraft Logbook
2	E4 F0	Hobbs Hours: 1543.7 :: Aircraft	TT: 5366.3 :: #1 Engine TSMO	H: 1341.5 :: #1Propeller SMOH: 5	Aircraft Logbook
		539.4 #Z Engine I SMUH: 134	1.5 C Heater Hobbs: 606.5		
		Completed Operation #4 inpsecti Completed the following Special I	on items per the Cessna 414A N Inspections too: 50 hr = 600 hr/s	faintenance manual progressive ca	re inspection form.
		1) C/W FAR 91:207(d) on the EL	T and noted no defects - next du	ue 06/23 ELT batt is due 11/25	-
		<ol> <li>C/W AD 2000-01-16 (paragram</li> </ol>	phs b, c & e) and noted no defec	ts. See undated A D list for next or	ompliance times.
	•	<ol> <li>U/VV AD 2004-25-16R1 on the</li> </ol>	heater fuel valve and noted no	ce placed in section 6 of the Pilot's evidence of fuel leakage - next due	Handbook. 06/23 or 1643 7 (hobbs) or
r i		5466.3 (AGTT).			
2		ecertify that this Airframe has bee airworthy condition.	en inspected in accordance with	an Operation #4 inspection and was	s determined to be in an
:		-			-
		Shoreline Aviation, Inc. 93 Old Colony Lane			
<		Marshfield, MA 02050 781-837-8521		11	11
		01-037-0321	Sign	ed Celward & Mor	ht -
6			Sign	Edward J. Novak Jr.	A+D 2022024 14
				Euward J. NUVak Jr.	A+P 2832024 IA
(					
			OK ENTRY	7	
			RFRAME		
		Name: Dan Bawabe	A/C: N414M	IP	
		W.O.: 11897	Hobbs Time: 1553	.5	
4		Date: 6/22/22	AC 8/N: 414A031		
		Checked tension of nose wheel r	nut. Installed cotter pin MS24665-13	64. <b>1</b>	
9			med above, this aircraft is approved	for	
:		retur	n to service.		
2		Signature:	A&P 38401436		
			ance Drew wood LLC - Maintenance		
		- 209 Access Rd.	, Norwood, MA 02062		
1			AVIATION	Shoreline Aviation, Inc.	
				······································	
•				Marshfield Municipal Airport George Harlow Field (GHG)	
ļ				93 Old Colony Lane Marshfield, MA 02050	
	9/13/2022	N414MP	Cessna 414A, se	rial # 414A-0317	Aircraft Logb
r	Engine TSN	MOH: 1385.3 :: Heater Hobbs: 6	≕ #1 Engine TSMOH: 1385.3 ; 06.1	: #1Propetier SMOH: 583.2 :: #21	Propeiler SMOH: 583.2 :: #2
(	Completed	Operation #1 inpsection items pe	r the Cessna 414A Maintenance	manual progressive care inspectio	n form.
	<ol> <li>C/W AD</li> </ol>	2000-01-06, para b to both engin	e exhaust systems and found or	n defacts	
1 .	0,0,000	2016-17-08 by inspecting the trir	neck to both vacuum pumps and n tab rod end attachment hardwa	I found both pumps to be above the are (bolt, nut, washers & cotter pin).	minimum wear fimits.
		ed 6 month cabin fire exlinguishe			Noki check dde at 5520.1 (ACT)
1 2	<ol> <li>Completi</li> </ol>	ed 1000 hr/3 year inspection and	service of all 6 landing gear trun	nion bearings.	
- C	<li>c) repraced</li>	d RAM airspeed limitations place ed magnetic compass swing and	and and prop synch limitation play	and with now units	
,	o) kepairec	I CRACKS IN the LH wind tip plastic.	cap by bonding fiberglass to the	inside surfaces of the cracks. A 4	access hole was added to the
6		annig ougo or this wing tip.			
, 8 	conny mar	this Anname has been hispected	in accordance with an Operatio	n #1 inspection and was determine	d to be in an airworthy condition.
, 8 				Signed <u>Gaw Gul AT VIO</u> Edward L N	ovak Jr. A+P 2832024 IA
, 8 				Eowaid J. No	2YON JL ATE 2832024 (A
, 8 					
, 8 	PAGE			CARRY FORWARD to Top of Nex	

	LOG ID# 31	onics LLC 246 SOUTH MEAU 66 11-October-2022 WO# S/N 414A0317 CESSNA	DOW ROAD GATE 6, HANG. 7357 HOBBS 1601.7 414A	AR SW-1 PLYMOUTH, MA	A 02360 Pg 1 / 1
1	THE ADC # 1 TESTED AND F TO 30,000FT.	(PN:011-00882-10 SN:206094 FOUND TO BE IN COMPLIANCE W	20) PITOT, STATIC AND ALT. /ITH FAR43, APPENDIX E AND	ITUDE REPORTING SYSTEMS F, AS REQUIRED BY FAR S	HAVE BEEN 91.411. TESTED
	HAVE BEEN TE 91.411. TEST	F'S SIDE ALTIMETER (PN:5934 ESTED AND FOUND TO BE IN CO FED TO 30,000FT.	MPLIANCE WITH FAR43, APPE	NDIX E AND F, AS REQUIRE	ED BY FAR
	10 30,000 FI				
	SN:83747129) FAR 91.413.	TRANSPONDER (PN:011-00455-6 ) HAS BEEN TESTED AND FOUND	0 SN:84108536) AND #2 ATC TO BE IN COMPLIANCE WITH	TRANSPONDER (PN:011-004 FAR43, APPENDIX F, AS F	190-00 REQUIRED BY
	THE ABOVE WO	ORDER 7357 ON FILE. ORK WAS COMPLETED IN ACCORD ION AND IS APPROVED FOR RET	ANCE WITH THE CURRENT REGURN TO SERVICE FOR THE WO	ALATIONS OF THE FEDERAL RK ACCOMPLISHED.	AVIATION
_	N40R087B NI	CCHOLAS PETERSEN			
					_
		SOUTH COAST PROF	PELLER SERVICE, INC.		-
			, BESSEMER, AL 35022		
			26-7022		
		REPAIR STAT	ON #S6PR302X		_
	GO	VERNOR DISASSEMBLED, CL	FANED AND INSPECTED IN		
	MAG	GNAFLUXED PARTS AS REQU	JIRED REASSEMBLED AND	TESTED TO	
		GNAFLUXED PARTS AS REQU	JIRED, REASSEMBLED AND	TESTED TO	
	MAQ	GNAFLUXED PARTS AS REQU NUFACTURER'S SPECIFICATI IOT APPLICABLE TO THIS GO	JIRED, REASSEMBLED AND IONS, NOTE: AD 2020-19-06 /	TESTED TO	_
1	MA( MAI JS N	GNAFLUXED PARTS AS REQU NUFACTURER'S SPECIFICATI IOT APPLICABLE TO THIS GO	JIRED, REASSEMBLED AND IONS, NOTE: AD 2020-19-06 /	TESTED TO	_
	MAC MAN JS N WO	GNAFLUXED PARTS AS REQU NUFACTURER'S SPECIFICATI IOT APPLICABLE TO THIS GC IRK ORDER #SR-15235	JIRED, REASSEMBLED AND IONS, NOTE: AD 2020-19-06 /	TESTED TO	_
	MA( MA) IS N WO MO(	GNAFLUXED PARTS AS REQU NUFACTURER'S SPECIFICATI IOT APPLICABLE TO THIS GO IRK ORDER #SR-15235 DEL #DCFS290D9/T3	JIRED, REASSEMBLED AND IONS, NOTE: AD 2020-19-06 /	TESTED TO	_
	MAG MAN JS N WO MOL SER	GNAFLUXED PARTS AS REQU NUFACTURER'S SPECIFICAT IOT APPLICABLE TO THIS GO IRK ORDER #SR-15235 DEL #DCFS290D9/T3 RIAL #990118	JIRED, REASSEMBLED AND IONS. NOTE: AD 2020-19-06 / IVERNOR.	TESTED TO	
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DATE		AIR TIME	LANDINGS / C	YCLES	
			Shoreline	Provine Autolice Ice	
			AVIATION	Shoreline Aviation, Inc. Marshileld Municipal Airport George Harlow Field (GHG)	
				93 Old Colony Lane Marshfield, MA 02050	
		ircraft TT: 5452.5		4A, serial # 414A-0317 :: #1 Engine TSMOH: 0.0 :: #1Propeller SMOH: Heater Hobbs: 601.9	Aircraft Logboo 625.6 :: #2 Propeller
Completed Oper	ration #2 in	psection items pe	r the Cessna 414A Mainte	anance manual progressive care inspection form.	ź
2) C/W AD 2010	6-17-08 on	the elevator trim t	vaive and found no evide ab hardware and found ne	o defects.	
			A and the battery passed checks and found no defe		
			h a new unit (part # 56501 d replaced it with a new F	18-1). 2DM790 display (part # 760000-6C-L, serial # 0834	5) Unit was relocated to
the lower side of	the RH ra	dio stack. All exis	ting wiring and temperatiu	ir probes were reused.	
maintenance ma	anual instru	ctions. All access	ories and oil and fuel hos	37 - RH s/n - 519264 using all new engine mounts service provided by RAM and installed except for	
			AP442CW - LH s/n - D10 610 - LH s/n - H-W09133	833, RH s/n - D10647). 5 - RH s/n - H-W091336). Both drive coupling slip.	torques were checked and
both passed and	l were insta	alled onto the new			
7d) 2 O/H hydra	ulic pumps	s (p/n 24194LAA, I	LH s/n - 1717 - RH s/n 33	8)	
				noved" condition. Air conditioning hydrautic pump e reinstalled from the previous engine in "as remov	
previous engines 8) 4 new RAM F		lex elbows were in	stalled (part # 1111-1) (tw	yo on each engine	
9) C/W AD 2000	0-01-06, pa	aragraphs B, C, D,	E & G by sending the ent	tire exhaust system aft of the slip joints to Aerospa	
			monants in with the airci		
				raft maintenance racordsfor more details. 4 new here header pipe exhaust stack was inspected and re	
privided by RAM engines.	and instal	led with the engine	es. Each individual cylind	er header pipe exhaust stack was inspected and re	einstalled from the previlous
privided by RAM engines. I certify that this	l and install Aircr <del>a</del> ft ha	led with the engine	es. Each individual cylind		einstalled from the previlous
privided by RAM engines. I certify that this Shoreline Aviatio	l and install Aircraft has on, Inc.	led with the engine	es. Each individual cylind	er header pipe exhaust stack was inspected and re	einstalled from the previlous
privided by RAM engines. I certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA	l and install Aircraft has on, Inc. ana	led with the engine	es. Each individual cylind	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in	einstailed from the previlous an airworthy condition.
privided by RAM engines. I certify that this Shoreline Aviatio 93 Old Colony La	l and install Aircraft has on, Inc. ana	led with the engine	es. Each individual cylind	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed	einstailed from the previious an airworthy condition. MA
privided by RAM engines. I certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA	l and install Aircraft has on, Inc. ana	led with the engine	es. Each individual cylind	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in	einstailed from the previious an airworthy condition. MA
privided by RAM engines. I certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA	l and install Aircraft has on, Inc. ana	led with the engine	es. Each individual cylind	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed	einstailed from the previlous an airworthy condition. MA
privided by RAM engines. I certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA	l and install Aircraft has on, Inc. ana	led with the engine	es. Each individual cylind	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed	einstailed from the previlous an airworthy condition. MA
privided by RAM engines. I certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA	l and install Aircraft has on, Inc. ana	led with the engine	es. Each individual cylind	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed	einstailed from the previlous an airworthy condition. MA
privided by RAM engines. I certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA	l and install Aircraft has on, Inc. ana	led with the engine	es. Each individual cylind n accordance with an Op . Shoreline	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed	einstailed from the previlous an airworthy condition. MA
privided by RAM engines. I certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA	l and install Aircraft has on, Inc. ana	led with the engine	es. Each individual cylind n accordance with an Op . Shoreline	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Churan AMM</u> Edward J. Novak Jr.	einstailed from the previlous an airworthy condition. MA
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521	Aircraft ha on, Inc. ana 02050	led with the engine s been inspected i	es. Each individual cylind in accordance with an Ope	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Culturana Marketica</u> Edward J. Novak Jr. Marketield Municipal Airport George Harlow Field (IGHG) 93 Old Colomy Lane Marketield. MA 02050	einstailed from the previlous an airworthy condition. <u>M</u> A+P 2832024 IA
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521	Aircraft has on, Inc. ana 02050	led with the engine s been inspected i	es. Each individual cylind in accordance with an Ope Shoreline AVIATION Cessna 4	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Culturaut</u> Edward J. Novak Jr. Shoreline Avlation, Inc. Marshtleid Municipal Airport George Harlow Field (IGHG) 93 Old Colomy Lane Marshfleid. MA 02050 14A, serial # 414A-0317	einstailed from the previlous an airworthy condition. <u>M</u> A+P 2832024 IA Aircraft Logbor
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521 5/10/2023 Hobbs Hours: 1 TSMOH: 28.3	N414M No. 1nc. Aircraft has bn, Inc. Ana 02050	led with the engine s been inspected i p hip Aircraft TT: 5480.8 Hobbs: 612.5	es. Each individual cylind in accordance with an Ope AVIATION Cessna 47 1 :: #1 Engine TSMOH: 2	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Columnation and Was determined to be in</u> Edward J. Novak Jr. Shoreline Avlation, Inc. Marshfleid Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfleid. MA 02050 14A, serial # 414A-0317 18.3 :: #1Propeller SMOH: 653.9 :: #2 Propeller S	einstailed from the previlous an airworthy condition. <u>M</u> A+P 2832024 IA Aircraft Logbor
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521 5/10/2023 Hobbs Hours: 1 TSMOH: 28.3 Completed Ope	N414M N414M 1658.2 :: / :: Heater F eration #3 i	P Aircraft TT: 5480.8 lobbs: 612.5 inpsection items p	es. Each individual cylind in accordance with an Ope AVIATION Cessna 47 1 :: #1 Engine TSMOH: 2 er the Cessna 414A Main	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Gubrau Automation</u> Edward J. Novak Jr. Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield. MA 02050 14A, serial # 414A-0317 18.3 :: #1Propeller SMOH: 653.9 :: #2 Propeller S tenance manual progressive care inspection form.	einstailed from the previlous an airworthy condition. <u>M</u> A+P 2832024 IA Aircraft Logbor
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521 5/10/2023 Hobbs Hours: 1 TSMOH: 28.3 Completed Ope 1) C/W AD 200 2) R+R Prop. 5	N414W N414W 1658.2 :: / Eration #3 i 00-01-16 (p Synch "on"	P Aircraft TT: 5480.8 lobbs: 612.5 inpsection items p bara. B) on the exh light bulb with a n	Shoreline AVIATION Cessna 47 1 :: #1 Engine TSMOH: 2 er the Cessna 414A Maint naust per AD instructions ew unit (part # 7049).	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Guidanta Market</u> Edward J. Novak Jr. Marshfleid Municipal Alirport George Harlow Field (GHG) 93 Old Colony Lane Marshfleid. MA 02050 14A, serial # 414A-0317 28.3 :: #1Propeller SMOH: 653.9 :: #2 Propeller S tenance manual progressive care inspection form. and found no defects.	einstailed from the previlous an airworthy condition. <u>M</u> A+P 2832024 IA Aircraft Logbor
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521 5/10/2023 Hobbs Hours: 1 TSMOH: 28.3 Completed Ope 1) C/W AD 200 2) R+R Prop. 5 3) R+R RH ma	N414M N414M 1658.2 :: / i: Heater H eration #3 i D0-01-16 (p Synch "on"	P Aircraft TT: 5480.8 Hobbs: 612.5 inpsection items propara. B) on the exh light bulb with a n a new GYFSII 6.5	Shoreline AVIATION Cessna 47 :: #1 Engine TSMOH: 2 er the Cessna 414A Maint naust per AD instructions ew unit (part # 7049). 50x10 & pr unit (part # 650)	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Guyau AMM</u> Edward J. Novak Jr. Shoreline Avlation, Inc. Marshfleid Municipal Airport George Harlow Field (IGHG) 93 Old Colony Lane Marshfleid. MA 02050 14A, serial # 414A-0317 18.3 :: #1Propeller SMOH: 653.9 :: #2 Propeller S tenance manual progressive care inspection form. and found no defects. C81-5).	einstailed from the previlous an airworthy condition. <u>M</u> A+P 2832024 IA Aircraft Logbor
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521 5/10/2023 Hobbs Hours: 1 TSMOH: 28.3 Completed Ope 1) C/W AD 200 2) R+R Prop. S 3) R+R RH ma 4) Resealed th 5) Replaced th	N414M N414M 1658.2 :: / i: Heater H eration #3 i D0-01-16 (p Synch "on" ain tire with the RH brakk the LH fuel t	P Aircraft TT: 5480.8 Hobbs: 612.5 inpsection items propara. B) on the exth light bulb with a n a new GYFSII 6.5 e with 4 new MS20 boost pump circuit	Shoreline AVIATION Cessna 47 :: #1 Engine TSMOH: 2 er the Cessna 414A Main haust per AD instructions ew unit (part # 7049). 50x10 ≺ unit (part # 6500 8775-132 o-rings. Bled br breaker with a serviceabl	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Gubbauaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa</u>	Arcraft Logbor SMOH: 653.9 :: #2 Engine
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521 5/10/2023 Hobbs Hours: 1 TSMOH: 28.3 Completed Ope 1) C/W AD 200 2) R+R Prop. S 3) R+R RH ma 4) Resealed th 5) Replaced th	N414M N414M 1658.2 :: / i: Heater H eration #3 i D0-01-16 (p Synch "on" ain tire with the RH brakk the LH fuel t	P Aircraft TT: 5480.8 Hobbs: 612.5 inpsection items propara. B) on the exth light bulb with a n a new GYFSII 6.5 e with 4 new MS20 boost pump circuit	Shoreline AVIATION Cessna 47 :: #1 Engine TSMOH: 2 er the Cessna 414A Main haust per AD instructions ew unit (part # 7049). 50x10 ≺ unit (part # 6500 8775-132 o-rings. Bled br breaker with a serviceabl	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Edward J. Novak Jr.</u> Edward J. Novak Jr. Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield. MA 02050 14A, serial # 414A-0317 18.3 :: #1Propeller SMOH: 653.9 :: #2 Propeller S tenance manual progressive care inspection form. and found no defects. C81-5). rakes and leak check OK. le unit (part # 7277-2-7.5) annual inspection and was determined to be in ab a	Arcraft Logbor SMOH: 653.9 :: #2 Engine
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521 5/10/2023 Hobbs Hours: 1 TSMOH: 28.3 Completed Ope 1) C/W AD 200 2) R+R Prop. S 3) R+R RH ma 4) Resealed th 5) Replaced th	N414M N414M 1658.2 :: / i: Heater H eration #3 i D0-01-16 (p Synch "on" ain tire with the RH brakk the LH fuel t	P Aircraft TT: 5480.8 Hobbs: 612.5 inpsection items propara. B) on the exth light bulb with a n a new GYFSII 6.5 e with 4 new MS20 boost pump circuit	Shoreline AVIATION Cessna 47 :: #1 Engine TSMOH: 2 er the Cessna 414A Main haust per AD instructions ew unit (part # 7049). 50x10 ≺ unit (part # 6500 8775-132 o-rings. Bled br breaker with a serviceabl	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Gubbauaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa</u>	an airworthy condition. A+P 2832024 IA A+P 2832024 IA Aircraft Logbor SMOH: 653.9 :: #2 Engine airworthy condition.
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521 5/10/2023 Hobbs Hours: 1 TSMOH: 28.3 Completed Ope 1) C/W AD 200 2) R+R Prop. S 3) R+R RH ma 4) Resealed th 5) Replaced th	N414M N414M 1658.2 :: / i: Heater H eration #3 i D0-01-16 (p Synch "on" ain tire with the RH brakk the LH fuel t	P Aircraft TT: 5480.8 Hobbs: 612.5 inpsection items propara. B) on the exth light bulb with a n a new GYFSII 6.5 e with 4 new MS20 boost pump circuit	Shoreline AVIATION Cessna 47 :: #1 Engine TSMOH: 2 er the Cessna 414A Main haust per AD instructions ew unit (part # 7049). 50x10 ≺ unit (part # 6500 8775-132 o-rings. Bled br breaker with a serviceabl	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Edward J. Novak Jr.</u> <u>Shoreline Avlation, Inc.</u> <u>Marshfield Municipal Airport</u> <u>George Harlow Field (GHG)</u> 93 Old Colomy Lane <u>Marshfield. MA 02050</u> <b>14A, serial # 414A-0317</b> 8.3 :: #1Propeller SMOH: 653.9 :: #2 Propeller S tenance manual progressive care inspection form. and found no defects. C81-5). rakes and leak check OK. e unit (part # 7277-2-7.5) annual inspection and was determined to be in an a Signed	an airworthy condition. A+P 2832024 IA A+P 2832024 IA Aircraft Logbor SMOH: 653.9 :: #2 Engine airworthy condition.
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521 5/10/2023 Hobbs Hours: 1 TSMOH: 28.3 Completed Ope 1) C/W AD 200 2) R+R Prop. S 3) R+R RH ma 4) Resealed th 5) Replaced th	N414M N414M 1658.2 :: / i: Heater H eration #3 i D0-01-16 (p Synch "on" ain tire with the RH brakk the LH fuel t	P Aircraft TT: 5480.8 Hobbs: 612.5 inpsection items propara. B) on the exth light bulb with a n a new GYFSII 6.5 e with 4 new MS20 boost pump circuit	Shoreline AVIATION Cessna 47 :: #1 Engine TSMOH: 2 er the Cessna 414A Main haust per AD instructions ew unit (part # 7049). 50x10 ≺ unit (part # 6500 8775-132 o-rings. Bled br breaker with a serviceabl	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Edward J. Novak Jr.</u> <u>Shoreline Avlation, Inc.</u> <u>Marshfield Municipal Airport</u> <u>George Harlow Field (GHG)</u> 93 Old Colomy Lane <u>Marshfield. MA 02050</u> <b>14A, serial # 414A-0317</b> 8.3 :: #1Propeller SMOH: 653.9 :: #2 Propeller S tenance manual progressive care inspection form. and found no defects. C81-5). rakes and leak check OK. e unit (part # 7277-2-7.5) annual inspection and was determined to be in an a Signed	an airworthy condition. A+P 2832024 IA A+P 2832024 IA Aircraft Logbor SMOH: 653.9 :: #2 Engine airworthy condition.
privided by RAM engines. i certify that this Shoreline Aviatio 93 Old Colony Li Marshfield, MA 781-837-8521 5/10/2023 Hobbs Hours: 1 TSMOH: 28.3 Completed Ope 1) C/W AD 200 2) R+R Prop. S 3) R+R RH ma 4) Resealed th 5) Replaced th	N414M N414M 1658.2 :: / i: Heater H eration #3 i D0-01-16 (p Synch "on" ain tire with the RH brakk the LH fuel t	P Aircraft TT: 5480.8 Hobbs: 612.5 inpsection items propara. B) on the exth light bulb with a n a new GYFSII 6.5 e with 4 new MS20 boost pump circuit	Shoreline AVIATION Cessna 47 :: #1 Engine TSMOH: 2 er the Cessna 414A Main haust per AD instructions ew unit (part # 7049). 50x10 ≺ unit (part # 6500 8775-132 o-rings. Bled br breaker with a serviceabl	er header pipe exhaust stack was inspected and re eration #2 inspection and was determined to be in Signed <u>Edward J. Novak Jr.</u> <u>Shoreline Avlation, Inc.</u> <u>Marshfield Municipal Airport</u> <u>George Harlow Field (GHG)</u> 93 Old Colomy Lane <u>Marshfield. MA 02050</u> <b>14A, serial # 414A-0317</b> 8.3 :: #1Propeller SMOH: 653.9 :: #2 Propeller S tenance manual progressive care inspection form. and found no defects. C81-5). rakes and leak check OK. e unit (part # 7277-2-7.5) annual inspection and was determined to be in an a Signed	an airworthy condition. A+P 2832024 IA A+P 2832024 IA Aircraft Logbor SMOH: 653.9 :: #2 Engine airworthy condition.

			Shandina		
			AVIATION	Shoreline Aviation, Inc.	
	-			Marshfield Municipal Airport George Harlow Field (GHG) B3 Old Colony Lane	
-	6/29/2023	N414MP	Cessna 414A.	Marshfield, MA 02050 serial # 414A-0317	Aircraft Logboo
Ø	15MOH: 57.0	:: Heater Hobbs: 613.8	9.5 :: #1 Engine TSMOH: 57.0 ::	: #1Propeller SMOH: 682.6 :: #2 P	ropeller SMOH: 682.6 :: #2 Engine
	Completed Op	peration #4 inpsection items	per the Cessna 414A Maintenan	ce manual progressive care inspecti	on form.
	<ul> <li>2) Completed</li> <li>3) Completed</li> <li>4) Completed</li> <li>5) C/W AD 20</li> <li>6) R+R the O</li> <li>atlached pape</li> <li>7) R+R the R</li> <li>check OK.</li> </ul>	I the 1 year Special inspection the 600 hr./1 year Special in the 500 hr. Special inspection 000-01-16, para. (b) to the ex 2 bottle part # C166001-081 prwork. Filled bottle to 1800 H engine tachometer general	ion items of the Cessna Progresh xhaust systems per AD insptrctio 3, serial # 3115X} after hydrostat psi. ator with an O/H unit (part # 22A6	e Care inspection program. rogresive Care inspection program. ve Care inspection program. ns and foun no defects. ic testing was completed by Airline # 67, serial # 30116). See attached 8	Accessory Service as shown on the 130-3 form for more details. Function
	<ol> <li>Sompleted</li> </ol>	the main battery capacity cl	ited no defects - next due 06/24. heck and the battery passed.		$\bigcirc$
	1 certify that th	is Airframe has been inspec	ted in accordance with an Opera	tion #4 inspection and was determine Signed	ed to be in an airworthy condition.
				John-E. S	heehan A+P 3439289 IA
				1	1
			, Shoreline		
			AVIATION	Shoreline Aviation, Inc.	
				Marshfield Municipal Airport	·
				George Harlow Field (GHG) 93 Old Colony Lans	
	9/14/	2023 N414MP	Cessna 414A, se	Marshfield, MA 02050	
	Hobt	os Hours: 1708.7	0003112 4 14A, 56	-1121 # 414A-0317	Aircraft Logbook
	Com	pleted the alternator voltage	regulators adjustment procedure	e per maint. Manual page 14-8D with	satisfactory regults
0,-	Shon 93 O Mars	n to service for the work acc eline Aviation, Inc. Id Colony Lane hfield, MA 02050 337-8521	ompilsnea.	tions of the Federal Aviation Adminis	_
		JJ{~dJZ }	Signe	ed Edward A Mort	<u>}</u>
				Edward J. Novak Jr. 4	+P 2832024 IA
			<b>CI P</b>		
			AVIATION	Shoreline Aviation, inc.	
_				Manshtjeld Municipal Airport	
				George Harlow Field (GHG) 93 Old Colony Lane	
				Marshfield, MA 02050	
	10/25/2023	N414MP	,	seria) # 414A-0317	Aircraft Logboo
		1724.6 :: Alfcraft   1: 5547	".2 :: #1 Engine (SMOH: 94.7 :	: #1Propetier SMOH: 720.3 :: #2 P	ropeller SMOH: 720.3 :: #2 Engine
	Completed O	peration #1 inpsection items	per the Cessna 414A Maintenan	ice manual progressive care inspect	ion form.
			eater fuel valve and found no evid		
	<ol> <li>C/W the 6</li> </ol>	montha handheld fire exting	n item on the hydraulic lines press juisher checks and found no defe	ects.	
	= 4) C/W AD 2	016-17-08 on the elevator tri	im tab hardware and found no de engine exhaust systems and four	fects.	
	<ul> <li>6) Installed a</li> </ul>	new LH tire (GYFCII 6.50x1	0 8pr) and all new 066-06600 bra	ake pads on both sides.	
	<ul> <li>7) Serviced th</li> <li>8) R+R the A</li> <li>8130-3 form.</li> </ul>	he O2 bottle to 1800 psi. /C hydraulic pump on the Rł The air conditioning conden	H engine after function test was o sor blower motor has been remo	completed by Aircraft Accessories of	Oklahoma as shown on the attached conditioning ststem is inopearive until difoning system with R417A
	refrigerant (2	lbs. 6 cz.).			unioning system with K41/A
-		the clear anti-chafe tape are	und the both cowls where needed	d	
0-					
<b>9</b> -				tion #1 inspection and was determine	ed to be in an airworthy condition.
•				Signed Columned O	Novak Jr. A+P 2832024 IA

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		AVIATION	Shareline Avlation, Inc.
			Marshtield Municipal Airport George Harlow Field (GHG)
			93 Old Colony Lane Marshfield, MA 02050
			erial # 414A-0317 Aircraft Logb
			H: 101.0 :: #2 Engine TSMOH: 101.0
	talled the air conditioning attached 8130-3 form.		910155-1, s/n 709) after O/H by The Aviation Group as show
			ations of the Federal Aviation Administration and is approved
	to service for the work a		ed Densel Han in Ton 1939767
		Sigr	Donald Harrington A+P 1939767
	WO 0007		
	wa: WO_8267	NEXAIR	Airframe - page 1 of 1
		· · · · · · ·	
	NexAir Avionics LLC 2	246 S. Meadow Road Gate 6. Hangar SW N4OB0876	1 - Plymouth. MA 02360 - 508-339-7077 - CRS#:
1. <u></u>	N414MP HOBBS: 1750.1	CESSNA, 414A, S/N: 414A03	17 December 22, 2023
		DU 620 PFD/MFD. REMOVED INTER	NAL COOLING FAN AND REPLACED WITH
			NAL COOLING FAN AND REPLACED WITH D PFD/MFD. OPS CHECK GOOD.
	THE ABOVE WORK W		WITH THE CURDENT REAL ATIONS OF
	THE FEDERAL AVIATION	ON ADMINISTRATION AND IS APP	WITH THE CURRENT REGULATIONS OF ROVED FOR REFURN TO SERVICE FOR
			1119-
	Andrew O'Shea Repair &	Station N4OR087B	www
-			
_		Shoreline	Shoreline Aviation, Inc.
		AVIATION	Shoreline Aviation, inc.
-		AVIATION	Marshfield Municipal Airport George Harlow Field (GHG)
		AVIATION	Marshfield Municipal Airport George Harlow Fleld (GHG) 93 Old Colony Lane Marshfield, MA 02050
3/1/2024	N414MP	Cessna #14A, seria	Marshfield Municipal Airport George Harlow Fleld (GHG) 93 Old Colony Lane Marshfield, MA 02050 1 # 414A-0317 Aircraft Logbook
Hobbs Ho	ours: 1775.2 :: Aircraft T	Cessna #14A, seria	Marshfield Municipal Airport George Harlow Fleld (GHG) 93 Old Colony Lane Marshfield, MA 02050
Hobbs Ho 770.9 :: Complete	ours: 1775.2 :: Aircraft T #2 Engine TSMOH: 145. ed Operation #2 inpsectio	AVIATION Cessna 414A, seria T: 5597.8 :: #1 Engine TSMOH: 3 :: Heater Hobbs: 630.5 In items per the Cessna 414A Main	Marshfield Municipal Airport George Harlow Field (GHG) 93 Okl Colony Lane Marshfield, MA 02050 1 # 414A-0317 I45.3 :: #1Propeller SMOH: 770.9 :: #2 Propeller SMOH: Itenance manual progressive care inspection form.
Hobbs Ho 770.9 :: : Complete 1) Compl	ours: 1775.2 :: Aircraft T #2 Engine TSMOH: 145. ed Operation #2 inpsectio leted the 400 hr. And 800	AVIATION Cessina 414A, seria T: 5597.8 :: #1 Engine TSMOH: 3 :: Heater Hobbs: 630.5 In items per the Cessina 414A Main 0 hr. Special inspection items. Inst	Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 I # 414A-0317 I45.3 :: #1Propeller SMOH: 770.9 :: #2 Propeller SMOH: Itenance manual progressive care inspection form. alled new AN6235-2A main hydraulic filters and a new
	burs: 1775.2 :: Aircraft T #2 Engine TSMOH: 145. ed Operation #2 inpsectio leted the 400 hr. And 800 3A air conditioning system AD 2000-06-16, para. B,C	AVIATION Cessna 414A, seria T: 5597.8 :: #1 Engine TSMOH: 3 :: Heater Hobbs: 630.5 in items per the Cessna 414A Mair 0 hr. Special inspection items. Inst m hydraulic filter. Lubricated the la 2 & E and noted no defects. Retor	Marshfield Municipal Airport George Harlow Field (GHG) 93 Okl Colony Lane Marshfield, MA 02050 1 # 414A-0317 I45.3 :: #1Propeller SMOH: 770.9 :: #2 Propeller SMOH: Itenance manual progressive care inspection form.
	burs: 1775.2 :: Aircraft T #2 Engine TSMOH: 145. ed Operation #2 inpsectio leted the 400 hr. And 800 3A air conditioning system AD 2000-06-16, para. B,O the hardware with new co	AVIATION Cessina 4143, seria Cessina 4143, seria T: 5597.8 :: #1 Engine TSMOH: 3 :: Heater Hobbs: 630.5 in items per the Cessina 414A Main 0 hr. Special inspection items. Insi in hydraulic filter. Lubricated the la 2 & E and noted no defects. Reton otter pins.	Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 I # 414A-0317 Aircraft Logbool 145.3 :: #1Propeller SMOH: 770.9 :: #2 Propeller SMOH: Itenance manual progressive care inspection form. alled new AN6235-2A main hydraulic filters and a new nding light gears and checked propeller bleade tracks OK.
	burs: 1775.2 :: Aircraft T #2 Engine TSMOH: 145. ed Operation #2 inpsectio leted the 400 hr. And 800 3A air conditioning system AD 2000-06-16, para. B,C the hardware with new co AD 2004-21-05 on the cat ed a used/serviceable LH	AVIATION Gessina 414A, seria T: 5597.8 :: #1 Engine TSMOH: 3 :: Heater Hobbs: 630.5 In items per the Cessina 414A Main 0 hr. Special inspection items. Inst in hydraulic filter. Lubricated the la 2 & E and noted no defects. Retorn other pins. bin heater (pressure decay test & p H wing tip (part # 5623000-57) per f	Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 1 # 414A-0317 Aircraft Logbool 145.3 :: #1Propeller SMOH: 770,9 :: #2 Propeller SMOH: Itenance manual progressive care inspection form. alled new AN6235-2A main hydraulic filters and a new nding light gears and checked propelier bleade tracks OK. qued the hardware at the left engine exhaust ball joints and ressure switch function! check) and found no defects. Cessna Bulletin ME80-28.
<ul> <li>Hobbs Ho</li> <li>770.9 ::</li> <li>Complete</li> <li>1) Complete</li> <li>1) Complete</li> <li>2) C/W A</li> <li>resaftied f</li> <li>3) C/W A</li> <li>4) Instalk</li> <li>5) Complete</li> <li>6) Filled f</li> </ul>	burs: 1775.2 :: Aircraft T #2 Engine TSMOH: 145. ed Operation #2 inpsectio leted the 400 hr. And 800 3A air conditioning syster AD 2000-06-16, para. B,C the hardware with new co AD 2004-21-05 on the cat ed a used/serviceable LH leted the 6 month fire ext the O2 bottle to 1800 psi	AVIATION Cessna 414A, seria Cessna 414A, seria T: 5597.8 :: #1 Engine TSMOH: 3 :: Heater Hobbs: 630.5 in items per the Cessna 414A Main 0 hr. Special inspection items. Inst m hydraulic filter, Lubricated the la 2 & E and noted no defects. Retom other pins. bin heater (pressure decay test & p 1 wing tip (part # 5623000-57) per 1 tinguisher checks and found no def and retorqued all of the fittings at	Marshfield Municipal Airport George Harlow Field (GHG) 93 Old Colony Lane Marshfield, MA 02050 1 # 414A-0317 Aircraft Logbook 145.3 :: #1Propeller SMOH: 770.9 :: #2 Propeller SMOH: Itenance manual progressive care inspection form. alled new AN6235-2A main hydraulic filters and a new nding light gears and checked propeller bleade tracks OK. qued the hardware at the left engine exhaust ball joints and ressure switch function! check) and found no defects. Cessna Bulletin ME80-28. ects. the bottle connections.
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	NexAir Avionics LLC - 246	6 S. Meadow Road Gale 6, Hangar SW-1 - Plymouth, MA N40B0876	02360 - 508-339-7077 - CRS#:	CENCE
	N414MP HOBBS: 1791.0	CESSNA, 414A, S/N: 414A0317	April 24, 2024	MEor IO/ACA
	REMOVED FAULTY GARM HAULED EXCHANGE GD 2024, OPS CHECK GOOL	MIN GDU 620 (PN:011-01264-00 SN:165001615). DU 620 (PN:011-01264-00 SN:165000477). SEE a D.	INSTALLED GARMIN OVER- 3130 DATED FEBRUARY 21,	
	NOTE: WORK ORDER # 8			
	THE ABOVE WORK WAS THE FEDERAL AVIATION THE WORK ACCOMPLISI	S COMPLETED IN ACCORDANCE WITH THE CUN ADMINISTRATION AND IS APPROVED FOR F	IRRENT REGULATIONS OF RETURN TO SERVICE FOR	
	Benjamin Schultz Repair S	Station N4OR087B Signin Sola	<u>NZ</u>	
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8/1/2024	N414MP	Cessna 414A, serial # 414	A-0317	Aircraft L
Hobbs Ho	ours: 1828.3 :: Aircraft TT: 56 198.4 :: Heater Hobbs: 632.7	350.9 :: #1 Engine TSMOH: 198.4 :: #1Prope	iler SMOH: 824.0 :: #2 Propeller SM	MOH: 824.0 :: #2 E
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ť.	1) installed Evacuated	a new air condtioning and serviced the air co	Compresso Inditioning a	r drive coupling (par	rt # 5154005-1). Serviced the A/C hy check of the A/C system was normal	draulic reservoir.			
	I ne above	work was completed in rvice for the work acco	1 accordance	e with current regula	ations of the Federal Aviation Admini	II			
-	_	Signed Edward & Mout							
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## • INTERNATIONAL AIRCRAFT DEALER'S ASSOCIATION MEMBERS

- Shall create and maintain a reputation for honesty, integrity and transparency and shall adhere to the highest ethical standards in their dealings with other members, their respective clients and all other parties.
- Shall be committed to constantly improving the quality of their services, products, and operations in order to provide a superior level of service, knowledge and value to their respective customers.
- Shall accurately represent their authority to show, demonstrate or sell an aircraft.
- Shall, as expeditiously as possible, submit to the seller all offers received. Once an offer has been accepted, all prospective purchasers, if any, will be informed of the accepted offer.
- In attempting to secure an exclusive listing, shall not deliberately mislead the owner as to the market value of the aircraft.
- When specifically acting as exclusive agent for an exclusive buyer or seller, shall not accept commission from more than one party to a transaction without the full knowledge of the principal(s) of the transaction.
- Shall compensate, directly or indirectly, employees of the parties to a transaction only with the written knowledge of the subject party.
- Shall present to the best of their knowledge accurate specifications of an aircraft for sale, and shall make truthful representations to the public.
- Shall avoid exaggeration, misrepresentation, or concealment of all known pertinent facts relating to a transaction.
- Shall provide a level of competent service in keeping with the highest standards of business and professionalism in the field of aircraft resale.
- Shall reveal their true ownership or interest in any aircraft they represent to the purchaser or his/her representative.
- Shall disclose any interest in other entities whose services they suggest or recommend that a client or owner use, and shall disclose any financial benefit they may receive as a result of the use of those services.
- Shall make full disclosure of charges and costs associated with any agreement.
- Shall use reasonable care to ensure that documents pertaining to the purchase and sale of aircraft are kept current through the use of written extensions and amendments.