

ENGINE LOG
EF5-1

R44 II
S/N: 13832

LYCOMING

New Reciprocating Engine Certificate

This is to certify that the engine as described hereinafter has been manufactured and ground operation tested as prescribed by Lycoming specification and Federal Aviation Regulations. All applicable Federal Aviation Airworthiness Directives applicable Lycoming Service Publications have been complied with at time of manufacture. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Part Number: ENPL-RT10586
Serial Number: L-36074-48E
Engine Model: IO-540-AE1A5
Work Order: AR594576
Total Time: 0 New

Form 777C Rev 05/13

 8/5/14
Authorized Representative Date

Production Certificate #3
652 Oliver Street Williamsport, PA 17701 U.S.A
Lycoming Engines is a division of Avco Corporation

ENGINE DESCRIPTION

MANUFACTURER LYCOMING MODEL IO-540-AE1A5
SERIAL NUMBER L-36074-48E DATE OF MANUFACTURE 05 AUG 2014
RATED BHP _____ RPM _____ MANIFOLD PRESSURE _____
FUEL REQUIRED OCTANE/PERFORMANCE 100LL
REGISTERED OWNER _____
STREET NO. _____
CITY, STATE, ZIP _____
REGISTERED OWNER _____
STREET NO. _____
CITY, STATE, ZIP _____

ENGINE ACCESSORIES INSTALLED

OIL COOLER
(SMALL) S/N 3009

LEFT MAGNETO ~~S/N~~ E14FA009 4/24/22 ET: 1237.49
EZ1LA08Z

STARTER S/N 0304240328
0115240105

IP SBR

[illegible]

LIFE LIMITED PARTS OR OVERHAUL REQUIREMENTS

[illegible]

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.
Lycoming SB 342	Injector Fuel Lines	JUL 7 '15 0	New lines and clamps installed	Recur	100 Hr or Annual	RHC PC424WE ATK
Lycoming SB 388	Valve Stem Clearance	JUL 7 '15 0	New engine installed	Recur	300.0	RHC PC424WE ATK
Lycoming SB 480	Oil Change	JUL 7 '15 4.00 hrs	Changed oil	Recur	29.00hrs or 4 months	RHC PC424WE ATK
95-07-01	Connecting Rod Bolts	JUL 7 '15 0	Mfg'd by Lycoming	1 Time	N/A	RHC PC424WE ATK
96-09-10	Sintered Iron Impeller	JUL 7 '15 0	Complied with by Mfg	1 Time	N/A	RHC PC424WE ATK
96-23-03	Fuel Pumps	JUL 7 '15 0	N/A by D.O.M.	1 Time	N/A	RHC PC424WE ATK
98-18-12	Fuel Pumps	JUL 7 '15 0	N/A by pump model	1 Time	N/A	RHC PC424WE ATK
2000-18-53	Oil Filter Plate	JUL 7 '15 0	Converter plate not installed	1 Time	N/A	RHC PC424WE ATK
2004-05-24	Crankshaft Gear Bolt	JUL 7 '15 0	Complied with by Lycoming	1 Time	N/A	RHC PC424WE ATK
2004-10-14	Crankshaft Gear	N/A 0	N/A	Recur	Sudden Stoppage, or Gear Train Repair	RHC PC424WE ATK
2005-12-06	TCM Magnetos	JUL 7 '15 0	N/A by Series	1 Time	N/A	RHC PC424WE ATK
2005-19-11	Crankshaft	JUL 7 '15 0	N/A per SB 566	1 Time	N/A	RHC PC424WE ATK
2009-02-03	RSA-10 Fuel Servo	JUL 7 '15 0	Part No. 2577258 Gasket installed	1 Time	N/A	RHC PC424WE ATK
2011-26-04	Injector Fuel Lines	JUL 7 '15 0	New lines and clamps installed	Recur	100 Hr/Annual or at Overhaul	RHC PC424WE ATK
2012-03-06	RSA-10 ADI Fuel Servo	JUL 7 '15 0	N/A by P/N	1 Time	N/A	RHC PC424WE ATK
2012-19-01	Crankshaft	JUL 7 '15 0	N/A by Eng S/N	1 Time	N/A	RHC PC424WE ATK

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.
SB342G	FUEL INS. LINES	8.8.16 179.84	VISUAL OR	RECUR	279.84	CRS IVSR6555
SB480E	OIL CHANGE	8.8.16 179.84	CHANGED OIL & FILTER	RECUR	279.84	CRS IVSR6555
AD 2015-19-07	FUEL INS. LINES	8.8.16 179.84	CHG J/F/W PAR(F)	LEWR	279.84	CRS IVSR6555
SB480E	Oil Change	12.22.16 281.31	Change	RECUR	331.31	CRS IVSR6555
SB342G	Fuel Ins. line	12.22.16 281.31	Imp for security	RECUR	381.31	CRS IVSR6555
AD 2015-19-07	Fuel Ins. line	12.22.16 281.31	Imp for security	RECUR	381.31	CRS IVSR6555
SB480E	Oil Change	3.29.17 354.34	Oil Change	RECUR	394.34	CRS IVSR6555
SB342G	Fuel Ins. line	3.29.17 354.34	Imp for security	RECUR	454.34	CRS IVSR6555
AD 2015-19-07	Fuel Ins. line	3.29.17 354.34	Imp for security	RECUR	454.34	CRS IVSR6555
SB480E	Oil Change	5.18.17 452.45	R/R oil	RECUR	502.45	CRS IVSR6555
SB342G	Fuel Ins. line	5.18.17 452.45	Imp for security	RECUR	552.45	CRS IVSR6555
AD 2015-19-07	Fuel Ins. line	5.18.17 452.45	Imp for security	RECUR	552.45	CRS IVSR6555
AD 2017-16-11	Fuel Ins. line	8.28.17 535.01	Imp for security	RECUR	585.01	CRS IVSR6555
AD 2015-19-07	Fuel Injection line insp.	9.5.2017 536.31	Imp for security	RECUR	636.31	CRS IVSR6555
SB480E	Oil Change	1.18.18 636.26	R/R Oil and filter	RECUR	686.26	CRS IVSR6555
AD 2015-19-07	Fuel ins. line insp.	1.18.18 636.26	Imp for security	RECUR	736.26	CRS IVSR6555
AD 2015-19-07	Fuel ins. line insp.	8.30.18 736.0	Imp for security	RECUR	836.0	CRS IVSR6555
SB480E	Oil Change	8.30.18 736.0	R/R oil and filter	RECUR	836.0	CRS IVSR6555

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

A.D./BULL. NUMBER	ITEM AFFECTED	DATE & HRS. AT COMP.	METHOD OF COMPLIANCE	TYPE OF A.D. 1 TIME/RECUR.	NEXT COMP. DATE/HRS./CYCLE	AUTHORIZED SIGNATURE CERTIFICATE NO.
SB288C	Exhaust Valve Guide Insp	8.30.18 736.8	insp as per	RECUR	1036.8	CRS IVSR6555
SB480E	Oil Change	7.1.19 836.37	Change	RECUR	936.37	CRS IVSR6555
AD 2015-19-07	Fuel Ins. line	7.1.19 836.37	Imp for security	RECUR	936.37	CRS IVSR6555
SB342G	Fuel Ins. line	7.1.19 836.37	Imp for security	RECUR	936.37	CRS IVSR6555
SB480E	Oil Change	3.19.20 932.36	Change	RECUR	982.36	CRS IVSR6555
SB342G	Fuel Ins. line	3.19.20 932.36	Imp for security	RECUR	1032.36	CRS IVSR6555
AD 2015-19-07	Fuel Ins. line	3.19.20 932.36	Imp for security	RECUR	1032.36	CRS IVSR6555
SB480E	Oil Change	1.25.21 1031.37	Change	RECUR	1081.37	CRS IVSR6555
SB342G	Fuel Ins. line	1.25.21 1031.37	Imp for security	RECUR	1131.37	CRS IVSR6555
AD 2015-19-07	Fuel Ins. line	1.25.21 1031.37	Imp for security	RECUR	1131.37	CRS IVSR6555
SB480E	Oil Change	6.2.21 1121.5	Change	RECUR	1171.5	CRS IVSR6555
SB342G	Fuel Ins. line	6.2.21 1121.5	Imp for security	RECUR	1221.5	CRS IVSR6555
AD 2015-19-07	Fuel Ins. line	6.2.21 1121.5	Imp for security	RECUR	1221.5	CRS IVSR6555
SB480E	Oil Change	4.14.17 1337.49	Change	RECUR	1387.49	CRS IVSR6555
SB342G	Fuel Ins. line	4.14.17 1337.49	Imp for security	RECUR	1387.49	CRS IVSR6555
AD 2015-19-07	Fuel Ins. line	4.14.17 1337.49	Imp for security	RECUR	1387.49	CRS IVSR6555
SB480E	Oil Change	4.15.17 1367.88	Change	RECUR	1467.88	CRS IVSR6555
SB342G	Fuel Ins. line	4.15.17 1367.88	Imp for security	RECUR	1467.88	CRS IVSR6555

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

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AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

[illegible]

AIRWORTHINESS DIRECTIVE/FACTORY BULLETIN COMPLIANCE RECORD

[illegible]

INSPECTION & MAINTENANCE RECORD

INSPECTION DATA		INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
DATE	TOTAL TIME	
10/30/2015	24.50	Removed stator P/N 315-100-4 S/N 011520105 and installed Overhauled stator P/N 315-100-4 S/N 0304240328. Function checked O.K. This engine was found serviceable and approve for Return to Service. Chris Com. A#P 3409456 I.A. CHRISTIAN CORTEZ 10/30/2015.
12/19/2015	39.57	Performed engine 50hr inspection Per Lycoming Engine S.B 480E, SB 342E and S.I 1080C, S.I 1129B. Removed, clean sparkplugs. Replaced oil filter with CH48108-1 and serviced engine with 9QTZ of 20/50 Mowat oil M-Type. I Found this engine serviceable and approve for return to Service. Chris Com. A#P 3409456 I.A. CHRISTIAN CORTEZ 12/19/2015

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.	DA
2/1/16	55.20	Performed 50hr engine inspection per Lycoming S-B 480E, SB342G and S-I 1080C, and S-I 1129B. Removes, inspects, clean and re-installs sparkplugs. Replaces oil filter with CH48108-1 oil filter. Serviced engine case with Aeroshell W100 plus 20/50 Ashless-dispersant oil (9QTZ). I found this engine to be serviceable and was approved for return to service.	
		Christian Cortez A&P 3409456	
		Christian Cortez 2/1/2016	

INSPECTION & MAINTENANCE RECORD

Date: 05/19/2016

Hobbs: 106.32

N404GG S/N 13832

A/C TT: 106.32

Eng S/N L-36074-48E

Eng TT: 106.32

1. I certified that this engine has been inspected IAW HR inspection per section 4.4 of the Lycoming O-540 Operator's Manual and Robinson R44 MM applicable engine inspections requirements.
2. C/W Lycoming SI-1129B. Alternator belt tension check.
3. C/W Lycoming SI-1080C. Item for special attention.
4. C/W Lycoming SI-1191-A Cylinder compress check (warm), results as follows: Cyl #1: 79, #2: 77, #3: 79, #4: 78, #5: 79, #6: 78 over 80 psi,
5. Performed SB388C valve clearance inspection and the results were Cyl#1) .018, #2) .020 #3) .017 #4) .015 #5) .016 #6) .018. Cyl#4 was reamed using a .499 reamer.
6. Performed SB301B valve train visual inspection.
7. Performed SB480E drained oil. Remove, inspected, cleaned, and reinstalled the oil screen, Drained and serviced oil. Service engine with 9 qtz. of 20/50 Aeroshell w100 plus.
8. Removed, inspected, cleaned and reinstalled fuel screen.
9. Inspected magnetos. Verified Engine timing to 20 degrees.
10. Removed, reconditioned, inspected, and reinstalled same spark plugs.
11. Removed, cleaned, and installed same Air Filter (P/N C771-2)
12. AD's through Bi-weekly 2016-10 were reviewed.
13. This engine was found serviceable and was approved for return to service.

Christian Cortez A&P 3409456 I.A. 5/19/2016

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
1-16	132	APPLIED OIL FILTER WITH CH48108-1) SERVICED WITH 7qts W/100

ENGINE MODEL: IO-540-AE1A5
ENGINE S/N: L-36074-48E
REG NO: N404GG
WORK ORDER: 6300

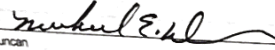
Shier Aviation Corporation
Repair Station No. IVSR6555
3753 John J. Montgomery Dr. #1
San Diego, CA 92123
Phone: 858-505-5663

DATE: 8/8/2016
A/C TSN: 179 84
ENG TT: 179 84
HOBBS: 179 84

Engine Entries

Complied with AD 2015-19-07 fuel injection line inspection in accordance with par(f) and provisions of Lycoming SB-382G. No defects were detected. Next due @ 279 84 ACTT—Complied with 50 hour service inspection in accordance with Lycoming SB-480E. Drained engine oil, changed B123-2 filter, cleaned suction oil strainer and serviced engine with 8 qts. Aeroshell 100W Plus. Complied with 100 hour engine inspection requirements. Removed, cleaned, inspected, gapped, tested, rotated and reinstalled spark plugs. Verified correct magneto timing. Complied with cylinder compression check #1 76/80, #2 75/80, #3 78/80, #4 74/80, #5 72/80, #6 76/80. Complied with ground run and leak check. No leaks detected. I certify that this engine has been inspected in accordance with a 100 hour/Annual inspection and was determined to be in an airworthy condition.

DATE: 8/8/2016

SIGNED: 
Michael Duncan
Certified Repair Station No. IVSR6555

Work Order: 6300
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10-11-16 229.04 Replaced oil Filter with
serviced with 8qts W/100 Plus

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		ENGINE MODEL: IO-540-AE1A5 ENGINE S/N: L-36074-48E REG NO: N404GG WORK ORDER: 6422
		Shier Aviation Corporation Repair Station No. IVSR6555 3753 John J. Montgomery Dr. #1 San Diego, CA 92123 Phone: 858-505-5663
		DATE: 12/22/2016 A/C TSN: 281 31 ENG TT: 281 31 HOBBS: 281 31

Engine Entries

Complied with AD 2015-19-07 fuel injection line inspection in accordance with par(f) and provisions of Lycoming SB-382G. No defects were detected. Next due @ 381 31 EngTT—Complied with 50 hour service inspection in accordance with Lycoming SB-480E. Drained engine oil, changed B123-1 filter, cleaned suction oil strainer and serviced engine with 8 qts. Aeroshell 100W Plus. Complied with ground run and leak check. No leaks detected. Complied with 100 hour engine inspection requirements as per section 4 of Lycoming Operators Handbook. Clean, check and regapped spark plugs. Verified correct magneto timing. Complied with cylinder compression check #1: 76/80; #2: 73/80; #3: 76/80; #4: 73/80 #5: 77/80 #6: 77/80. Complied with ground run and leak check. No leaks detected.

DATE: 12/22/2016

SIGNED: 
Jon McClure
Certified Repair Station No. IVSR6555

Work Order: 6422
Printed by EBis 3 (datcomedia.com)

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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ENGINE MODEL: Shier Aviation Corporation
 10-540-AE1A5
 ENGINE S/N: L-36074-48E Repair Station No. IVSR655S
 REG. NO: N404GG 3753 John J. Montgomery Dr. #1
 WORK ORDER: 6456 San Diego, CA 92123
 Phone: 858-505-5663

DATE: 2/14/2017
 A/C TSN: 310.7
 ENG TT: 310.7
 HOBBS: 310.7

Engine Entries

Removed R/H (left side engine) magneto P/N 10-600646-201 S/N E14EA159 and installed 0.0 TSO same P/N S/N E05AA339
 Ground run and ops check verified normal function.

DATE: 2/14/2017

SIGNED:

Jon McClure
 Certified Repair Station No. IVSR655S

Work Order: 6456

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3/5/17 331.01 50 hr oil 3 Filter

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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ENGINE MODEL: Shier Aviation Corporation
 10-540-AE1A5
 ENGINE S/N: L-36074-48E Repair Station No. IVSR655S
 REG. NO: N404GG 3753 John J. Montgomery Dr. #1
 WORK ORDER: 6501 San Diego, CA 92123
 Phone: 858-505-5663

DATE: 3/29/2017
 A/C TSN: 354.34
 ENG TT: 354.34
 HOBBS: 354.34

Engine Entries

Complied with SB-342G/AD 2015-19-07 Amendment 39-16894 Effective Date: 11/03/2015. Par. (e) (i)(ii). Next Due in ACTT: 464.34 hrs. No defects noted. —Complied with Lyc. SB-388C Part.1 Exhaust guide valve check. Clearance was as follow: #1: 0.016 #2: 0.020 #3: 0.015 #4: 0.025 #5: 0.015 #6: 0.018. No defects noted. Next Due ACTT: 654.34 hrs. —Completed 50 Hr Inspection per Lyc. SB-480E Part. I(C) & Part.II(A). Removed old oil filter PN: B123-2 with new oil filter PN: B123-2. Serviced engine with new 9qrts of Aeroshell W100 Plus engine oil. No defects noted. Next due ACTT: 404.34 hrs. —C W. 100 Hr Engine Inspection per Corp. Heli 100 Hr Engine Checklist, RHC R44 MM Ch.2 Sec. 2.410 as applicable & FAR Part 43 Appendix D as applicable. Engine compression data are as follows: #1: 78/80 #2: 74/80 #3: 78/80 #4: 75/80 #5: 72/80 #6: 74/80. Installed 1 ea new REM-38E spark plug. Magneto timing was verified correct. Installed 1 ea new Air filter C771-2. A ground run and leak check was performed with no leaks noted.

I certify that this engine has been inspected in accordance with a 100 Hour inspection and was determined to be in airworthy condition.

DATE: 3/29/2017

SIGNED:

Jon McClure
 Certified Repair Station No. IVSR655S

Work Order: 6501

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INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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ENGINE MODEL
IO-540-AE1A5
ENGINE S/N: L-36074-48E
REG NO: N404GG
WORK ORDER: 6550

Shier Aviation Corporation

Repair Station No. IVSR655S
3753 John J. Montgomery Dr #1
San Diego, CA 92123
Phone: 858-505-5663

DATE: 5/18/2017
A/C TSN: 452 45
ENG TT: 452 45
HOBBS: 452 45

Engine Entries

Complied with AD 2015-19-07 effective 11-03-2015. -Fuel Injection Line Inspection in accordance with Par(f) and provisions of Lycoming SB-382G. No defects were detected. Next due @ 552.45 ACTT—Complied with 50 Hour Service Inspection in accordance with Lycoming SB-480E. Drained engine oil, removed and replaced with new B123-2 filter, cleaned suction oil strainer and serviced engine with 8 qts. of Aeroshell 100 plus. Complied with ground run and leak check. No leaks detected. —Complied with 100 Hour Engine Inspection requirements. Cleaned, gapped and rotated 12 ea. REM-38E spark plugs. Verified correct magneto timing. Complied with cylinder compression check #1 78/80; #2 71/80; #3 72/80; #4 71/80; #5 73/80; #6 71/80. Complied with ground run and leak check. No leaks detected.

I certify that this engine has been inspected in accordance with a 100 Hour inspection and was determined to be in airworthy condition.

DATE: 5/18/2017

SIGNED:

Jon McClure
Certified Repair Station No. IVSR655S

Work Order: 6550

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8-28-17 535.01

AD 2017-16-11 Prop Conn Rod bush by Prop (g)

AD is N/A as to SN is not affected.

JVS 655S

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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ENGINE MODEL IO-540-AE1A5
ENGINE S/N: L-36074-48E
REG NO: N404GG
WORK ORDER: 6651

Shier Aviation Corporation

Repair Station No. IVSR655S
3753 John J. Montgomery Dr #1
San Diego, CA 92123
Phone: 858-505-5663

DATE: 9/5/2017
A/C TSN: 536 31
ENG TT: 536 31
HOBBS: 536 31

Engine Entries

Complied with AD 2015-19-07 effective 11-03-2015. -Fuel Injection Line Inspection in accordance with Par(f) and provisions of Lycoming SB-382G. No defects were detected. Next due @ 636.31 ACTT.

Removed Start Magneto P/N 10600616-9 S/N E14FA033. Installed 1 ea 0.0 TSO magneto same P/N S/N E14LA033. See Aircraft electrical components 8130-3.

Complied with 50 Hour Service Inspection in accordance with Lycoming SB-480F. Drained engine oil, removed and replaced with new B123-2 filter, cleaned suction oil strainer and serviced engine with 8 qts. of Aeroshell 100 Plus. Complied with ground run and leak check. No leaks detected.

Complied with 100 Hour Engine Inspection requirements. Cleaned, gapped and rotated 12 ea. REM-38E spark plugs. Verified correct magneto timing. Complied with cylinder compression check #1 70/80; #2 73/80; #3 72/80; #4 75/80; #5 71/80; #6 72/80. Complied with ground run and leak check. No leaks detected.

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

DATE: 9/5/2017

SIGNED:

Jon McClure
Certified Repair Station No. IVSR655S

Work Order: 6651

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ENGINE MODEL
IO-540-AE1A5
ENGINE S/N: L-36074-48E
REG NO: N404GG
WORK ORDER: 6718

Shier Aviation Corporation

Repair Station No. IVSR655S
3753 John J. Montgomery Dr. #1
San Diego, CA 92123
Phone: 858-505-5663

DATE: 11/10/2017
A/C TSN: 603 39
ENG TT: 603 39
HOBBS: 603 39

Engine Entries

Removed engine driven fuel pump P/N LW-15473 S/N H0813. Installed 1 ea 0.0 TSO fuel pump P/N LW-15473 S/N OCGZ30. Work was done I/A/W Lycoming direct drive overhaul manual.

DATE: 11/10/2017

SIGNED:

Jon McClure
Certified Repair Station No. IVSR655S

Work Order: 6718

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INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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ENGINE MODEL: **Shier Aviation Corporation**
 IO-540-AE1A5
 ENGINE S/N: L-36074-48E
 REG NO: N404GG
 WORK ORDER: 6721

DATE: 11/14/2017
 A/C TSN: 603 89
 ENG TT: 603 89
 HOBBS: 603 89

Engine Entries

Preliminary Inspection complied with in accordance with 145CRS —Removed alternator P/N ALU-8521RS S/N H-0070433 and installed 0.0 TSO alternator same P/N S/N H-P091508. ground run and flight check showed normal operation.

DATE: 11/14/2017

SIGNED:

Jon McClure
 Certified Repair Station No. IVSR655S

Work Order: 6721

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ENGINE MODEL: **Shier Aviation Corporation**
 IO-540-AE1A5
 ENGINE S/N: L-36074-48E
 REG NO: N404GG
 WORK ORDER: 6777

DATE: 1/18/2018
 A/C TSN: 636 26
 ENG TT: 636 26
 HOBBS: 636 26

Engine Entries

Complied with AD 2015-19-07 effective 11-03-2015. -Fuel Injection Line Inspection in accordance with Par(f) and provisions of Lycoming SB-382G. No defects were detected. Next due @ 736 2 EngTT—Complied with 50 Hour Service Inspection in accordance with Lycoming SB-480F. Drained engine oil, removed and replaced with new B123-2 filter, cleaned suction oil strainer and serviced engine with 8 qts. of Aeroshell 100 Plus. Complied with ground run and leak check. No leaks detected.—Complied with 100 Hour Engine Inspection requirements. Cleaned, gapped and rotated 12 ea REM-38E spark plugs. Verified correct magneto timing. Complied with cylinder compression check #1 70/80, #2 75/80, #3 74/80, #4 76/80, 76/80, 78/80. Complied with ground run and leak check. No leaks detected.

I certify that this engine has been inspected in accordance with a 100-hour inspection and was determined to be in airworthy condition.

DATE: 1/18/2018

SIGNED:

Jon McClure
 Certified Repair Station No. IVSR655S

Work Order: 6777

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INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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ENGINE MODEL: **Shier Aviation Corporation**
 IO-540-AE1A5
 ENGINE S/N: L-36074-48E
 REG NO: N404GG
 WORK ORDER: 6974

DATE: 8/1/2018
 A/C TSN: 722 24
 ENG TT: 722 24
 HOBBS: 722 24

Engine Entries

Preliminary Inspection complied with in accordance with 145CRS.—Installed 9 ea new REM-38E spark plugs and cleaned and gapped the remaining three plugs.

DATE: 8/1/2018

SIGNED:

Jon McClure
 Certified Repair Station No. IVSR655S

Work Order: 6974

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DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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DATE: 8/30/2018
A/C TSN: 736.8
ENG TT: 736.8
HOBBS: 736.8

Complied with AD 2015-19-07 Effective 11-03-2015. -Fuel Injection Line Inspection in accordance with Par(f) and provisions of Lycoming SB-382G. No defects were detected. Next due @ 846 h ACTT—Complied with 50 Hour Service Inspection in accordance with Lycoming SB-480F. Drained engine oil, removed and replaced with new B123-2 filter, cleaned suction oil strainer and serviced engine with 8 qts. of Aeroshell 100 Plus. Complied with ground run and leak check. No leaks detected —Complied with 300Hr Exhaust Valve Guide Inspection per Lycoming SB 388C Part 1. No defects noted. Next due EngTt. 1036 h Hrs EngTt (1036 h Hobbs). Measurements are as follow:

#6 .017—Complied with 100 Hour Engine Inspection requirements as per Ch 4 of operating handbook and O/H Manual 60294-7. Cleaned, gapped and rotated 12 ea. REM-38E spark plugs. Verified correct magneto timing. Complied with cylinder compression check #1 78/80; #2 74/80; #3 72/80; #4 73/80; #5 76/80; #6 78/80. Complied with ground run and leak check. No leaks detected.

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

SIGNED

Jon McClure
Certified Repair Station No. IVSR655S

Work Order: 6993

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10/20	758.7	oil-churn	Jim	3052200
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3/15	790.3	oil 3 Filt	<i>[Signature]</i>	3052200
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DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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DATE: 7/1/2
A/C TSN: 83
ENG TT: 83
HOBBS: 83

Removed R/R(tach) magneto for 500 hour insp. Installed 0 0 TSI magneto P/N 10-600646-201 S/N E15JA075. Timed to 20 degrees BTDC.

Complied with AD 2015-19-07 Effective 11-03-2015. -Fuel Injection Line Inspection in accordance with Par(f) and provisions of Lycoming SB-382G. No defects were detected. Next due @ 936 37 ACTT

Complied with 50 Hour Service Inspection in accordance with Lycoming SB-480F. Drained engine oil, removed and replaced with new B123-2 filter, cleaned suction strainer and serviced engine with 8 qts. of Aeroshell 100 Plus. Complied with ground run and leak check. No leaks detected.

Complied with 100 Hour Engine Inspection requirements. Cleaned, gapped and rotated 12 ea. REM-38E spark plugs. Verified correct magneto timing. Complied with cylinder compression check #1 73/80, #2 70/80, #3 74/80, #4 70/80, #5 72/80, #6 71/80. Complied with ground run and leak check. No leaks detected.

I certify that this engine has been inspected in accordance with a 100-Hour inspection and was determined to be in airworthy condition.

SIGNED

Jon McClure
Certified Repair Station No. IVSR655S

Work Order:

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8/2/19	851.82	oil change for 2052200
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[illegible]

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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ENGINE MODEL: IO-540-AE1A5
ENGINE S/N: L-36074-48E
REG. NO: N404GG
WORK ORDER: 7395

Shier Aviation Corporation

Repair Station No. IVSR6555
3753 John J. Montgomery Dr. #1
San Diego, CA 92123
Phone: 658-505-5663

DATE: 10/23/2019
A/C TSN: 8743
ENG TT: 8743
HOBBS: 8743

-Engine Entries

Installed 12 ea new REM-38E spark plugs. verified Magneto timing at 20 BTDC. Post maint flight verified normal temps and operation.

I certify that the work performed was done i/a/w the proper maintenance manuals and procedures and the aircraft is approved for return to service.

DATE: 10/23/2019

SIGNED:

Jon McClure
Certified Repair Station No. IVSR6555

Work Order: 7395
Printed by EBis 3 (datcomedia.com)

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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ENGINE MODEL:
IO-540-AE1A5
ENGINE S/N: L-36074-48E
REG. NO: N404GG
WORK ORDER: 7529

Shier Aviation Corporation

Repair Station No. IVSR6555
3753 John J. Montgomery Dr. #1
San Diego, CA 92123
Phone: 658-505-5663

DATE: 3/19/2020
A/C TSN: 932 36
ENG TT: 932 36
HOBBS: 932 36

Engine Entries

Checked applicable AD's thru release issue 2020-05. —Complied with AD 2015-19-07 Effective 11-03-2015. -Fuel Injection Line Inspection in accordance with Part(f) and provisions of Lycoming SB-382G. No defects were detected. Next due @ 1032.36
ACTT—Complied with 50 Hour Service Inspection in accordance with Lycoming SB-480F. Drained engine oil, removed and replaced with new B123-2 filter, cleaned suction oil strainer and serviced engine with 8 qts. of Aeroshell 100 Plus. Complied with ground run and leak check. No leaks detected. —Complied with 100 Hour Engine Inspection requirements. Verified correct magneto timing. Complied with cylinder compression check #1 75/80; #2 73/80; #3 74/80; #4 76/80; #5 74/80; #6 74/80. Complied with ground run and leak check. No leaks detected.

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

DATE: 3/19/2020

SIGNED:

Jon McClure
Certified Repair Station No. IVSR6555

Work Order: 7529
Printed by EBis 3 (datcomedia.com)

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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ENGINE MODEL: IO-540-AE1A5
ENGINE S/N: L-36074-48E
REG. NO. N404GG
WORK ORDER: 7750

Shier Aviation Corporation

Repair Station No. IVSR655S
3753 John J. Montgomery Dr. #1
San Diego, CA 92123
Phone: 858-505-5663

Engine Entries

Complied with 50 Hour Service Inspection in accordance with Lycoming SB-480F. Drained engine oil, removed and replaced with new B123-2 filter, cleaned suction oil strainer and serviced engine with 8 qts. of Aeroshell 100 Plus. Complied with ground run and leak check. No leaks detected.

Complied with AD 2015-19-07 Effective 11-03-2015. -Fuel Injection Line Inspection in accordance with Par(f) and provisions of Lycoming SB-382G. No defects were detected. Next due @ 1131.37 ACTT.

Complied with Lycoming SB-388C Exhaust Valve Guide clearance and found all exhaust valve guides to be within allowable limits. Next due at 1601.37 ACTT.

Complied with 100 Hour/Annual Engine Inspection requirements. Cleaned, gapped and rotated 12 ea. REM-38E spark plugs. Verified correct magneto timing with ground run and leak check. No leaks detected.

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

DATE: 1/26/2021

SIGNED:

Jon McClure

Certified Repair Station No. IVSR655S

Work Order 7750

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INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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ENGINE MODEL: IO-540-AE1A5
ENGINE S/N: L-36074-48E
REG. NO. N404GG
WORK ORDER: 7838

Shier Aviation Corporation

Repair Station No. IVSR655S
3753 John J. Montgomery Dr. #1
San Diego, CA 92123
Phone: 858-505-5663

Engine Entries

Complied with AD 2015-19-07 Effective 11-03-2015. -Fuel Injection Line Inspection in accordance with Par(f) and provisions of Lycoming SB-382G. No defects were detected. Next due @ 1221.5 ACTT.

Complied with 50 Hour Service Inspection in accordance with Lycoming SB-480F. Drained engine oil, removed and replaced with new B123-2 filter, cleaned suction oil strainer and serviced engine with 8 qts. of Aeroshell 100 Plus.

Complied with 100 Hour Engine Inspection requirements of Lycoming operator handbook chapter 4. Cleaned, gapped and rotated 12 ea. REM-38E spark plugs. Verified correct magneto timing. Complied with cylinder compression check #1 74/80; #2 79/80; #3 75/80; #4 75/80; #5 75/80; #6 78/80. Complied with ground run and leak check. No leaks detected.

I certify that this engine has been inspected in accordance with a 100 Hour inspection and was determined to be in airworthy condition.

DATE: 6/2/2021

SIGNED:

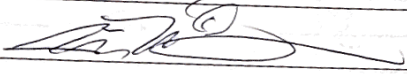
Jon McClure

Certified Repair Station No. IVSR655S

Work Order: 7838

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INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
ENGINE MODEL: IO-540-AE1A5 ENGINE S/N: L-36074-48E REG. NO. N404GG WORK ORDER: 7927		Shier Aviation Corporation Repair Station No. IVSR655S 3753 John J. Montgomery Dr. #1 San Diego, CA 92123 Phone: 858-505-5663
Engine Entries Removed oil filter adapter housing to replace mating gasket. Installed new gasket P/N 61173. Removed L/H magneto to remove 45 degree oil fitting from accessory housing. Installed 1 ea new 45 degree fitting P/N AN23-8. Installed 1 ea new 45 degree fitting Installed new oil filter P/N B123-2. Ground run and leak check performed. Removed leaking Fuel Pump PN LW15473 SN: 0CGZ30 and installed Overhauled Fuel Pump PN: LW15473 SN: 088M14 TSO: 0.0. Work was performed i/w Lycoming overhaul manual section 5-3 and 5-36. No further defects were noted. Ground run and leak check was performed and no leaks were noted. I certify that the maintenance performed, as listed above, was executed in accordance with current FAA Regulations (Ref 14 CFR 43.9) and Manufacturer Maintenance Manuals as indicated for the work performed. See Shier Aviation Work Order 7927 for pertinent details. Aircraft is approved for return to service.		
DATE: 9/30/2021	SIGNED: 	Work Order 7927 Printed by EBIS 3 (dalcmedia.com)
Jon McClure Certified Repair Station No. IVSR655S		

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
		Hanger 13 Fly Hanger 13, LLC 12483 FM 1283 Mico, Texas 78056 210.383.4954 heath@flyhanger13.com Authorized RHC R22/R44/R66 Service Center
		Make: Robinson Date: 4-24-2022 TSOH: N/A Model: R44 Raven II Hobbs: 1,237.49 ETT: 1,237.49 Make: Lycoming Model: IO-540-AE1A5 SN: L-36074-48
Performed 100-HOUR INSPECTION in accordance with LYCOMING OPERATOR'S MANUAL O-540, IO-540 SERIES Section 4-3, para. 5, & in accordance with RHC RTR-460 2.400, Rev. DEC 2021.		
1. Pertinent Details of this Inspection are on file at Hanger 13 CRS 13H-R9728 under Work Order: 1289 2. Checked alternator belt tension per Lycoming SI 1129D. 3. Compression checked IAW Lycoming SI1191A: #1 76/80, #2 74/80, #3 76/80, #4 76/80, #5 76/80, #6 74/80. 4. Changed oil & filter. Inspected oil suction screen & filter per Lycoming SB480F. Installed new CH48108-1 filter. 5. Removed Magneto PN: 10-6006169 SN: E14FA033, PN: 10-600646-201 SN: E15JA075 for overhaul. 6. Installed new Magneto PN: 10-6006169 SN: E21LA082, PN: 10-600646-201 SN: E21IA103. 7. Performed TCM643B. Checked magneto timing at 20° BTDC IAW Engine data plate. 8. Cleaned, gapped, tested & installed spark plugs in next firing order 1,4,5,2,3,6. 9. Installed 8 Qts. Exxon Elite 20W-50. 10. Complied with Lycoming SB3426. No cracks or leaks found. Next Inspection due Hobbs: 1,347.49 11. Complied with FAA AD 2015-19-17 Injector Fuel Lines IAW para. (F). Next Inspection due Hobbs: 1,347.49 12. Performed Engine Spectrum Analysis. See attached Microbase Spectrum Analysis Report dated: 4/23/2022 13. Performed Ground Check IAW 2.205, Run Up IAW 2.210 & Flight Check IAW 2.220 with no defects noted.		
I certify that this engine is in Airworthy Condition at this time with respect to the work performed, & is approved for Return to Service. Heath Vos  CRS 13H-R9728		

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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Fly Hangar 13, LLC
 12483 FM 1283 Mico, Texas 78056
 210.383.4554 heath@flyhangar13.com
 Authorized RHC R23/R44/R44 Service Center

Performed 100-HOUR INSPECTION in accordance with LYCOMING OPERATOR'S MANUAL 0-540, IO-540 SERIES
 Section 4-2, para. 5. & in accordance with RHC RTR-460 2.400, Rev. DEC 2021.

- Pertinent Details of this Inspection are on file at Hangar 13 CRS 13HR972B under Work Order: 1294
- Checked alt. belt tension per Lycoming SI 1129B.
- Compression checked IAW Lycoming SI1191A: 01 74/80, 02 74/80, 03 74/80, 04 74/80, 05 74/80, 06 74/80.
- Changed oil & filter. Inspected oil suction screen & filter per Lycoming SB485E. Installed new CH48100-1 filter.
- Complied with Lycoming SB 301B, Maintenance Procedures and Service Limitations for Valves. Next Inspection due: 1,467.88
- Complied with Lycoming SB 300C, Procedures to Determine Exhaust Valve and Guide Condition. Next Inspection due: 1,467.88
- Performed TCM443B. Checked magneto timing at 20° BTDC IAW Engine data plate. Ignition switch checked good.
- Cleaned, gapped, tested & installed spark plugs in next firing order 1,4,3,2,5,6.
- Installed 1 Qts. Exxon Elite 20W-50.
- Complied with Lycoming SB342G. No cracks or leaks found. Next Inspection due: 1,467.88
- Complied with FAA AD 2015-26-04 Injector Fuel Lines IAW para. (e). Next Inspection due: 1,467.88
- Performed Engine Spectrum Analysis. See attached Microbase Spectrum Analysis Report dated: 4/18/2023
- C/W all current Federal Aviation Regulations Airworthiness Directives at this time.
- Performed Ground Check IAW 3.205, Run Up IAW 3.210 & Flight Check IAW 3.220 with no defects noted.

I certify that this engine is in Airworthy Condition at this time with respect to the work performed, & is approved for Return to Service.

Heath Voss

CRS 13HR972B

INSPECTION & MAINTENANCE RECORD

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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Fly Hangar 13, LLC
 12483 FM 1283 Mico, Texas 78056
 210.383.4554 heath@flyhangar13.com
 Authorized RHC R23/R44/R44 Service Center

Performed 100-HOUR INSPECTION in accordance with LYCOMING OPERATOR'S MANUAL 0-540, IO-540 SERIES
 Section 4-2, para. 5. & in accordance with RHC RTR-460 2.400, Rev. MAR 2024.

- Pertinent Details of this Inspection are on file at Hangar 13 CRS 13HR972B under Work Order: 1297
- Checked alt. belt tension per Lycoming SI 1129B.
- Compression checked IAW Lycoming SI1191A: 01 73/80, 02 74/80, 03 74/80, 04 74/80, 05 74/80, 06 74/80.
- Changed oil & filter. Inspected oil suction screen & filter per Lycoming SB485F. Installed new CH48100-1 filter.
- Installed new LW-13792 Lycoming Crankshaft Oil Seal in reference to Lycoming SI No. 1324D, Dated: January 25, 2023.
- Installed new RHC B173-3 Alternator V-Belt, Rev. E.
- Installed new RHC 72564 Starter Ring Gear.
- Performed TCM443B. Checked magneto timing at 20° BTDC IAW Engine data plate. Ignition switch checked good.
- Cleaned, gapped, tested & installed spark plugs in next firing order 1,4,3,2,5,6.
- Installed 1 Qts. Exxon Elite 20W-50.
- Complied with Lycoming SB342G. No cracks or leaks found. Next Inspection due: 1,504.87
- Complied with FAA AD 2015-19-07 Injector Fuel Lines IAW para. (e). Next Inspection due: 1,504.87
- Performed Engine Spectrum Analysis. See attached Microbase Spectrum Analysis Report dated: 3/25/2024
- C/W all current Federal Aviation Regulations Airworthiness Directives at this time.
- Performed Ground Check IAW 3.205, Run Up IAW 3.210 & Flight Check IAW 3.220 with no defects noted.

I certify that this engine is in Airworthy Condition at this time with respect to the work performed, & is approved for Return to Service.

Heath Voss

CRS 13HR972B

INSPECTION & MAINTENANCE RECORD

Schoener Aviation LLC
303 Airport Rd.
Taylor, Tx 76574
Shaunschoener407@gmail.com

DATE	TOTAL TIME	INSPECTION OR MAINTENANCE PERFORMED AGENCY & CERTIFICATE NO.
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WO# 13832-1

Schoener Aviation LLC
303 Airport Rd.
Taylor, Tx 76574
Shaunschoener407@gmail.com

N404GG R44 Raven II S/N 13832 Hobbs: 1520.34 ACTT: 1520.34
Lycoming IO-540-AE1A5 S/N L-36074-48E ENG TT: 1520.34 TSO: N/A

Work Performed

- Removed LH exhaust collector and #1 cylinder riser due to cracks. Installed new LH exhaust collector P/N C169-5 and new #1 cylinder riser P/N C169-7 with new gaskets and hardware.
- Aircraft ran up, no leaks noted and all systems satisfactory.
- All work done iaw Lycoming Operators Manual # 60297-10, 4th Edition dated June 2006.

WO# 13832-1 October 10, 2024 Shaun Schoener A&P2822892

N404GG R44 Raven II S/N 13832 Hobbs: 1607.10 ACTT: 1607.10
Lycoming IO-540-AE1A5 S/N L-36074-48E ENG TT: 1607.10 TSO: N/A

Scheduled Inspections

- C/W 50hr Insp iaw Lycoming SB 480. Cut open filter-no metal noted. Drained oil, cleaned suction screen and reserviced with Exxon Elite 20W-50. Installed new filter P/N CH48108.
- C/W 50hr, 100hr Engine Insp iaw Lycoming Operator's Manual Section 4 and Lycoming SI 1080C.
- C/W 100hr Methods of Checking DC Alternator and Generator Belt Tension Insp iaw Lycoming SI 1129.
- C/W 100hr Cylinder Compression checks iaw Lycoming SI 1191. #1-74/80, #2-72/80, #3-78/80, #4-72/80, #5-76/80 & #6-76/80.
- C/W 100hr Magneto Maintenance Intervals Insp iaw CMI SB 643.

AD Compliance

- C/W AD 15-19-07, External Fuel Injector Lines, dated 11/03/15 by visual insp iaw para (ii) and Lycoming MSB 342G, dated 7/6/13, Supplement 1 dated 8/29/13, and Supplement 2 dated 1/23/21. No defects noted. Due whenever maintenance is done where any clamp on a fuel injector line was disconnected, moved, or loosened, or ACTT: 1707.10.
- AD 23-09-09, Failures of Spot-Welded, Multi-segment V-Band Couplings, dated 7/17/23 is N/A - does not have a turbocharger installed.
- AD 24-21-02, Connecting Rod Assy and Bushing was previously found N/A by Connecting Rod date code by Aircraft Engine Specialist, CRS# ZF7R728Y.
- All AD's are current thru Biweekly 2025-16, reference complete list in aircraft records.

Work Performed

- Cleaned, gapped and rotated all spark plugs.
- Aircraft ran up, no leaks noted and all systems satisfactory.
- All components with Life/TBO/Cycles & Calendar service schedules are listed on AC Status Report.
- All work done iaw Lycoming Operators Manual # 60297-10, 4th Edition dated June 2006.

I certify that this engine has been inspected in accordance with a 100HR Inspection and was determined to be in airworthy condition.

WO# 13832-4 August 24, 2025 Shaun Schoener A&P2822892