

N8991W
LOG #2

TEXTRON Lycoming

ENGINE LOG

SSP-1872-1

SERVICEABLE PART

Manufacturer TEXTRON LYCOMING
Part Name AIRCRAFT ENGINE
Model No. O-540-B4B5
Serial No. L-8130-40
Remarks Crankshaft Serial # 28992

The aircraft engine or accessory identified above was:

☐ Rebuilt
☒ Overhauled
☐ Repaired

and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service.

Pertinent details of the repair are on file at this repair station under order no: A-7033

Date 06/22/01

Signed

Textron Lycoming Service Center

Williamsport Regional Airport
Montoursville, PA 17754

REPAIR STATION

Form 2085A Rev 6/00

570/323-6181

ENGINE SERIAL NUMBER 1-8130-40

IN SERVICE DATE 071601 ENG. 1589 T.T.

DETACH AND RETAIN THIS PORTION FOR YOUR RECORD

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.
570/323-6181

ENGINE LOG AND MAINTENANCE RECORD

RECORD OF TEXTRON LYCOMING 0-540-B4B5 L-8130-40
MAKE MODEL SERIAL
FROM _____ 19 ____ TO _____ 19 ____
DETAILING TIME FROM _____ TO _____
HOURS HOURS

SSP 1872-1

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October 1994

TEXTRON Lycoming

652 Oliver Street
Williamsport, PA 17701 U.S.A.

Form No. 365

This engine has been overhauled/rebuilt in accordance with the applicable Textron Lycoming manuals. All applicable Federal Aviation Administration Airworthiness Directives and Textron Lycoming Service Bulletins have been complied with. All parts have been inspected and have been determined airworthy to return to service. All accessories as part of the type certificate are either new or newly overhauled. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Engine Model: O-540-B4B5
Serial #: L-8130-40
Total Time: 1589.0
Work Order #: A-7033
Date Completed: 06/22/01

Signature: [Redacted]
Textron Lycoming Service Center
Williamsport/Lycoming Co. Airport
Montoursville, PA 17754
Repair Station: [Redacted]

ENGINE DESCRIPTION

Mfgr. TEXTRON LYCOMING	Place Williamsport, PA 17701	Date
Type	Model	Serial No.
Rated H.P.	Max. H.P.	Weight (Dry)
Rated R.P.M.	Max. R.P.M.	Oil Pressure
Bore	Stroke	Displacement Cu. In.
Compression Ratio	Supercharger Ratio	
Reduction Gear Ratio		
Propeller	[Redacted]	Hub Serial No.
Blade Design	[Redacted]	Blade Serial No.
Max. Hub H.P.	Max. Blade H.P.	
Pitch	Diameter	Length
Name		
Address		

ENGINE LOG

Serial No.

[illegible]

ENGINE LOG

Serial No.

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
2001 12-08-01			TACH TIME 48.5 SMON TOTAL TIME 1637.5		
			THIS ENGINE WAS INSPECTED IAW FAR 43		
			APPENDIX D AND A CHECK LIST. NO AD'S DUE AT		
			THIS TIME. #1-6 @ 70+/80. CHANGED OIL FILTER		
			W/9QT AEROSHELL 15W50 WT. OIL, CHANGED FILTER. NO		
			CONTAMINATES FOUND. ADJUST MIXTURE LINKAGE, LUBE THROTTLE		
			LINKAGE. REPLACED BA 3 AIR FILTER. CHECK CONTINUAL		
			MOVEMENT. OK. TEST. OK. CHECKED MAG TO ENGINE TIME		
			THIS PROPELLOR / ENGINE WAS INSPECTED IAW A 120HR /		
			ANNUAL INSPECTION, FOUND TO BE AIRWORTHY		
			Page Total		
			Brought Forward		
			Total to Date		

All Repair Data Must Bear the Endorsement of a
Certificated Mechanic, and his Rating and
Certificate Number MUST be Shown.

Date



Date: 04/12/03 N Number: N8991W

Tach: 132.00 TT Engine: 1681.80 TSMOH: 92.80

Description of Work Performed:

Performed a 100 Hour inspection of engine in accordance with FAR Part 43, appendix D. Changed oil and filter using N/A quarts of Aeroshell 15 W 50 oil. Performed compression, results as follows: 1) 77/80, 2) 78/80, 3) 76/80, 4) 75/80, 5) 75/80 and 6) 77/80. Cleaned, gapped and tested all spark plugs. No oil change at this time, oil filter removed and cut open, no particles of defect noted. #5 cylinder remove and replaced due to bad valve seat. Installed new cylinder, Kit-05K21103, see form 8130-3 for details. AD compliance record updated to reflect engine installed. AD'S reviewed and C/W up to this date, see Aircraft records for compliance times. Washed and ran engine to check for leaks and performance, found normal and returned to service.

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

Gilbert C. Schoales Jr. AP

ENGINE LOG

Serial No. _____

Date	Time		REPAIRS - ADJUSTMENTS - SERVICE - REMARKS	Signature	License Number
	Hrs	Min			
7/20/04					
TACH:	222.3		ANNUAL INSPECTION COMPLETED IN ACC-		
TSMOH:	189.1		ORDANCE WITH FAR 43 APPENDIX D. NO		
			OIL CHANGE @ THIS TIME. COMPRESSION		
			TEST RESULTS: 1) 73/80 2) 76/80 3) 76/80		
			4) 74/80 5) 74/80 6) 76/80. CLEANED		
			AND GAPPED SPARK PLUGS. REPLACED		
			ALTERNATOR BELT WITH OWNER SUPP-		
			LIED PART. TORQUED & SAFETYED		
			PROP. WASHED DOWN. ENGINE		
			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.	
			Brought Forward		
			Total to Date		

1. Approving National Aviation
Authority/Country:
FAA/UNITED STATES

2. **AUTHORIZED RELEASE CERTIFICATE**
FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number

MS- 205016

4. Organization Name and Address:

TEXTRON LYCOMING
652 OLIVER STREET
WILLIAMSPORT, PA 17701

PRODUCTION CERTIFICATE #3

5. Work Order, Contract
or Invoice Number:

7136/133884

6. Item

7. Description

8. Part Number

9. Eligibility*

10. Qty

11. Serial/Batch No.

12. Status/
Work

0001 KIT-CYL PISTON & RING ASSY

05K21103

O-540-B1A5

00001

WO#7136

NEW

13. Remarks

AIRWORTHINESS APPROVAL PARTS-THIS FORM IS NOT AN EXPORT APPROVAL
PRECISION AIRCRAFT
United States

Eligibility Block 9 indicates only one of many approved models. Numerous other models may be eligible for the same part.

14. Certifies the items identified above were manufactured in

conformity to:

☒ Approved design data and are in condition for safe operation.
☐ Non-approved design data specified in Block 13.

19. 14CFR 43.9 Return to Service - Other regulation in Block 13
Certifies that unless otherwise specified in Block 13, the work
identified in block 12 and described in Block 13 was accomplished
in accordance with Title 14, Code of Federal Regulations, Part 43.
In respect to that work, the items are approved for return to service

15. Authorized Signature

16. Approval/Authorization No.

20. Authorized Signature

21. Approval/Cert Number:

Name (Typed or Printed):

F. H. HILL JR

18. Date(m/d/y):

03/18/03

22. Name (Typed or Printed):

23. Date(m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install
part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than
the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her
airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.
Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain
an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (JUN-01)

*Installer must cross check eligibility with applicable technical data.

ENGINE LOG

Serial No.

[illegible]

MIDWEST AIRCRAFT SERVICES, INC. – Newton City-County Airport – Newton, Kansas

08-03-05 N8991W, Piper PA28-235, S/N 28-10571

Lycoming O-540-B4B5, S/N L-8130-40

Tach Time: 272.3 hrs Engine Total Time: 1822.1 hrs TSO: 233.1 hrs

Changed oil and oil filter, serviced with Aeroshell 15w50. Old oil filter cut open, inspected for contaminants, none noted. Checked mag timing and ignition leads. Compression checked: #1 68/80, #2 70/80, #3 69/80, #4 66/80, #5 70/80, #6 70/80. Cleaned, gapped and checked spark plugs.

I certify that this engine has been inspected in accordance with an ANNUAL inspection and was approved for return to service in an airworthy condition.

N8991W Engine Log Entry

Resurfaced accessory mount plate and installed same with new gasket.

This engine is approved for return to service with regard to the work performed

Date: 11/07/05 Tach: 322.4

Zachary P. Ortiz, A

			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
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			Total to Date	

Serial No.

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Serial No.

**All Repair Data Must Bear the Endorsement of a
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Certificate Number MUST be Shown.**

MIDWEST AIRCRAFT SERVICES, INC. - Newton City-County Airport - Newton, Kansas

09-01-06 N8991W, Piper PA28-235, S/N 28-10571

Lycoming O-540-B4B5, S/N L-8130-40

Tach Time: 390.9 hrs A/C Total Time: 1940.7 hrs TSO: 351.7 hrs

Changed oil and oil filter, serviced with Aeroshell 15w50. Old oil filter cut open, inspected for contaminants, none noted. Checked mag timing and ignition leads. Cleaned, gapped and tested spark plugs. Compression checked: #1 75/80, #2 79/80, #3 76/80, #4 72/80, #5 77/80, #6 78/80. Installed new Brackett air filter element with BA-3.

I certify that this engine has been inspected in accordance with an
ANNUAL inspection and was approved for return to service in an

MIDWEST AIRCRAFT SERVICES, INC. - Newton City-County Airport - Newton Kansas

10-24-07 N8991W Piper PA28-235, S/N 28-10571

Lycoming O-540-B4B5, S/N L-8130-4

Tach Time: 447.9 hrs Engine Total Time: 1997.7 hrs TSO: 408.7 hrs

Changed oil and oil filter, serviced with Aeroshell 15w50. Old oil filter cut open, inspected for contaminants, none noted. Checked mag timing and ignition leads. Cleaned, gaped and checked spark plugs. Compression checked: #1 74/80, #2 72/80, #3 72/80, #4 70/80, #5 75/80, #6 74/80. Replaced all 6 rocker cover gaskets with new P/N 75906. Installed new Brackett air filter element with new BA-3.

I certify that this engine has been inspected in accordance with an
ANNUAL inspection and was approved for return to service in an
airworthy condition.

License
Number

MIDWEST AIRCRAFT SERVICES, INC. - Newton City-County Airport - Newton Kansas

12-08-08 N8991W Piper PA28-235, S/N 28-10571

Lycoming O-540-B4B5, S/N L-8130-40

Tach Time: 509.4 hrs Engine Total Time: 2059.2 hrs TSO: 470.2 hrs

Changed oil and oil filter, serviced with Aeroshell 15w50 and CH48110-1 oil filter. Old oil filter cut open, inspected for contaminants, none noted. Checked mag timing and ignition leads. Cleaned, gapped and checked spark plugs. Compression checked: #1 74/80, #2 77/80, #3 76/80, #4 74/80, #5 76/80, #6 72/80.

I certify that this engine has been inspected in accordance with an
ANNUAL inspection and was approved for return to service in an

MIDWEST AIRCRAFT SERVICES, INC. - Newton City-County Airport - Newton Kansas

01-21-10 N8991W Piper PA28-235, S/N 28-10571

Lycoming O-540-B4B5, S/N L-8130-40

Tach Time: 536.7 hrs Engine Total Time: 2086.5 hrs TSO: 497.5 hrs

Changed oil and oil filter, serviced with Aeroshell 15w50 and CH48110-1 oil filter. Old oil filter cut open, inspected for contaminants, none noted. Checked mag timing and ignition leads. Cleaned, gapped and checked spark plugs. Compression checked: #1 76/80, #2 75/80, #3 72/80, #4 76/80, #5 70/80, #6 76/80.

I certify that this engine has been inspected in accordance with an
ANNUAL inspection and was approved for return to service in an
airworthy condition.

lo.

Signature

License
Number

Endorsement of a
Rating and
shown.

ENGINE LOG

Serial No. _____

MIDWEST AIRCRAFT SERVICES, INC. – Newton City-County Airport – Newton Kansas

04-01-11 N8991W Piper PA28-235, S/N 28-10571

Lycoming O-540-B4B5, S/N L-8130-40

Tach and Engine Total Time: 2120.97 hrs TSO: 531.97 hrs

Changed oil and oil filter, serviced with Aeroshell 15w50 and CH48110-1 oil filter. Old oil filter cut open, inspected for contaminants, none noted. Checked mag timing and ignition leads. Cleaned, gapped and checked spark plugs. Compression checked: #1 78/80, #2 76/80, #3 77/80, #4 78/80, #5 78/80, #6 76/80.

I certify that this engine has been inspected in accordance with an ANNUAL inspection and was approved for return to service in an airworthy condition.

Signature

License Number

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Total to Date

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

ENGINE LOG

Serial No. _____

MIDWEST AIRCRAFT SERVICES, INC. – Newton City-County Airport – Newton, Kansas

7-2-12 N8991W Piper Pa 28-235 s/n 28-10571 Lycoming O-540-B4B5 s/n L-8130-40

Tach & Total: 2142.78 TSO: 553.78 Changed oil and filter. Serviced with Aeroshell 15W50. Compression checked: #1 76/80 #2 78/80 #3 76/80 #4 78/80 #5 76/80 #6 78/80. Cleaned gapped and tested sparkplugs. Replaced #1 bottom sparkplug with new REM38E.

I certify that this engine has been inspected in accordance with an annual inspection and was approved for return to service in an airworthy condition.

License Number

Page Total

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Total to Date

All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.

MIDWEST AIRCRAFT SERVICES, INC. - Newton City-County Airport - Newton Kansas

07-01-13 N8991W Piper PA28-235, S/N 28-10571

Lycoming O-540-B4B5, S/N L-8130-40

Tach and Engine Total Time: 2145.3 hrs TSO: 556.4 hrs

Changed oil and oil filter, serviced with 9 qts Aeroshell 15w50 and CH48110-1 oil filter. Old oil filter cut open, inspected for contaminants, none noted. One Camguard added also. Checked mag timing and ignition leads. Cleaned, gapped and checked spark plugs. Compression checked: #1 70/80, #2 76/80, #3 74/80, #4 76/80, #5 74/80, #6 74/80.

I certify that this engine has been inspected in accordance with an ANNUAL inspection and was approved for return to service in an



IA

MIDWEST AIRCRAFT SERVICES, INC. - Newton City-County Airport - Newton Kansas

10-01-14 N8991W Piper PA28-235, S/N 28-10571

Lycoming O-540-B4B5, S/N L-8130-40

Tach and Engine Total Time: 2152.86 hrs TSO: 564.26 hrs

Changed oil and oil filter, serviced with 9 qts Aeroshell 15w50 and CH48110-1 oil filter. Old oil filter cut open, inspected for contaminants, none noted. Also added one CamGuard oil additive. Checked mag timing and ignition leads. Cleaned, gapped and tested spark plugs. Compression checked: #1 76/80, #2 76/80, #3 78/80, #4 74/80, #5 74/80, #6 78/80. Removed, timed and reinstalled right magneto and installed new PN K3215 carbon brush.

I certify that this engine has been inspected in accordance with a 100 Hour/ANNUAL inspection and was approved for return to service in an airworthy condition.



A+P

Signature

License
Number

MIDWEST AIRCRAFT SERVICES, INC. - Newton City-County Airport - Newton Kansas

12-13-16 N8991W Piper PA28-235, S/N 28-10571

Lycoming O-540-B4B5, S/N L-8130-40

Tach and Engine Total Time: 2165.06 hrs TSO: 576.5 hrs

Changed oil and oil filter, serviced with 10 qts Aeroshell 15w50 and CH48110-1 oil filter. Old oil filter cut open, inspected for contaminants, none noted. Also added one CamGuard oil additive. Checked mag timing and ignition leads. Cleaned, gapped and tested all spark plugs. Compression checked: #1 74/80, #2 78/80, #3 76/80, #4 74/80, #5 74/80, #6 72/80.

Rechecked after Run up = 78/80

I certify that this engine has been inspected in accordance with a 100 Hour/ANNUAL inspection and was approved for return to

MIDWEST AIRCRAFT SERVICES, INC. - Newton City-County Airport - Newton Kansas

02-12-18 N8991W Piper PA28-235, S/N 28-10571

Lycoming O-540-B4B5, S/N L-8130-40

Tach and Engine Total Time: 2173.3 hrs TSO: 584.4 hrs

Changed oil and oil filter, serviced with 10 qts Aeroshell 15w50 and AA48110-2 oil filter. Old oil filter cut open, inspected for contaminants, none noted. Also added one CamGuard oil additive. Checked mag timing and ignition leads. Cleaned, gapped and tested all spark plugs. Compression checked: #1 78/80, #2 78/80, #3 79/80, #4 78/80, #5 74/80, #6 77/80.

By logbook review AD#2017-16-11 dated 08-05-17 is not applicable as no connecting rods work done since 07-16-2001.

I certify that this engine has been inspected in accordance with a 100 Hour/ANNUAL inspection and was approved for return to service in an airworthy condition.



A+P

Signature

License
Number

Serial No. _____

ENGINE LOG

Serial No. _____



DATE: 15 MAR 2019

REG#: N8991W

ENG SN: L8130-40

AC TACH: 2207.11

TSO: 618.11

ENG TT: 2207.11

Changed oil filter AA48110-2. Drained oil and serviced engine with 10 Qts of Aeroshell 15w-50 oil. Checked oil screen. No defects noted at this time. Replaced #1 and #2 Intake hoses PN: 69603 QTY: 2. Replaced all rocker box cover gaskets PN: 75906 QTY: 6. Replaced #3-cylinder bottom spark plug with new REM38E plug. Replaced all spark plug gaskets PN: M674 QTY: 12. Replaced Air induction filter PN: BA-3. Replaced wire on oil temp sensor. Removed and cleaned and tested spark plugs. Removed and cleaned primer injectors. Replaced heat scat tubing with serviceable scat. **Compression Test: #1 = 75/80 #2= 79/80 #3= 79/80 #4=77/80 #5: 77/80 #6: 79/80.** Checked aircraft magneto timing Operational check good. **This engine has been inspected in accordance with a (an) Annual inspection, was found airworthy and has been approved for return to service.**

Signature

Certificate:

Date:

15 MAR 2019

			Page Total	All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.
			Brought Forward	
			Total to Date	

Serial No. _____

P.O. Box 188
Horner, WV 26372

Registration	Manufacturer	Model	Serial Number	Tach Time
N8991W	LYCOMING	0-540-B4B5	L-8130-40	2210.6

C/W COMPRESSION TEST-1) 77/80, 2)77/80, 3)77/80, 4)75/80, 5)75/80, 6)77/80. REINSTALLED TOP SPARK PLUGS.

Maintenance Release

The Engine listed above has been inspected & repaired I/A/W current FAA regulations and has been found airworthy for return to service.

Date: April 25, 2019

Authorized Signature: _____

[illegible]

LEDGE AIR REPAIR INC. GRAND LEDGE

07/16/2019	Piper PA 28-235 N8991W	S/N 28-10571	Inv No.	1609
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Tach Time	<u>2215.00</u>	Hrs.	Total Time:	<u>2215.00</u>	TTSMO:	<u>626.00</u>	Hrs.
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Lycoming O-540-B4B5 S/N L-8130-40

1. Removed both magnetos and completed 500 hour inspections. Installed new M3081 Points & K3984 Capacitor on left magneto. Reinstalled magnetos with new base gaskets and timed to engine data plate specs.
2. Installed 12 new UREM40E sparkplugs with new M6784 Gaskets.
3. Removed carburetor inlet screen for inspection. Reinstalled with new CF16-A48 copper locking washer.
4. Labor, Removed carb heat air box assembly. Cleaned air box and removed air box heat control valve. Installed new heat valve P/N 65142-007, reinstalled air box to carburetor with new 63684-004 gasket. Rigged carb heat control.
5. Reinstalled engine cowling.
6. Completed post maintenance operational checks on maintenance noted above with no abnormalities noted.

Todd M. Cotter A&P

N8991w 28-10571

Eng TT	<u>2234.86</u>
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Inspected and serviced engine and propeller in accordance with Piper 100 Inspection Report (PA28-235).

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

License Number

Serial No.

**All Repair Data Must Bear the Endorsement of a
Certificated Mechanic, and his Rating and
Certificate Number MUST be Shown.**