

Book 3

AIRCRAFT MAINTENANCE RECORDS

N 56659

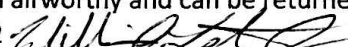
ENGINE LOG BOOK

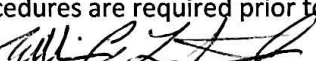


AIRCRAFT MAINTENANCE RECORD


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Date	Total Time	DESCRIPTION OF WORK PERFORMED SIGNATURE & CERTIFICATE NUMBER OF PERSON PERFORMING WORK
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03/15/2023, Lycoming O-320-E3D, SN: L-37620-27A, TT: UNK. SMOH: 0.00. Major engine overhaul has been performed in accordance with Lycoming Overhaul Manual (Direct Drive Engines) PN: 60294-7, Lycoming SB240W and Ram Aircraft STC SW8987SE-D, dwg. No. 1742, rev. E, Dated: 02/04/94. Crankcase, Accessory Housing and Oil Sump were overhauled/repared by DivCo Inc. in Tulsa, Oklahoma. Crankshaft, Connecting Rods, Rocker Arms, Lifters, Hydraulic Units, Tachometer Shaft & Idler Gears were overhauled/repared by Aircraft Specialties Services, Inc., Tulsa, Oklahoma. Installed four overhauled cylinders from Gibson Aviation, El Reno, Oklahoma, PN: LW-12416. Pistons installed PN: SL75089A as per Ram STC, all piston weights are 1258 grams. Piston Rings Sets PN: CC203 installed IAW Continental Service Information Letter SIL004. Crank Shaft Gear PN: SL13S19646H, Bolt PN: SL-STD-2246 and Lock Plate PN: LW-18639 installed IAW Lycoming Service Bulletin SB475C. New parts installed: Camshaft PN: LW-18840, Rocker Arm Shafts PN: AEL13790, Rocker Shaft Buttons PN: SL12892, Piston Pins PN: SL13444-1, Rod Bolts PN: SL78027, Rod Nuts PN: SL12186, Oil Pump Housing PN: SL78531 Rev. S, Oil Pump Impeller kit PN: SL18109A-S, Oil Pump Drive Shaft PN: SL61174A, Oil Suction Screen PN: SL70484, Suction Screen Plug PN: 69335, Crank Gear PN: SL13S19646H, Spacer Tach Drive PN: 68753, Oil Relief Valve Spring PN: 68668, Oil Relief Valve Ball PN: 1028B, Vernatherm PN: SL53E19600 Rev. D, Vacuum Pump Drive Gear PN: 72970, Main Bearings PN: SL68763A M03, Rod Bearings PN: SL61662A M03, Cylinder Nuts PN: STD-2090 & SL-383-B, Engine Driven Fuel Pump PN: AF-15472, SN: OYBY27, Fuel Pump Plunger PN: AEL61544. No magnetos or carburetor were installed on the engine. Installed Supplemental Engine Data Plate as per Ram Aircraft STC SE8987SW-D, Ram Drawing No. 1724 Rev. C. All AD's and Service Bulletins / Letters / Instructions have been complied with up through the above listed date and FAA Biweekly 2023-06, 02/27/2023-03/12/2023. I certify that this engine has been overhauled IAW Lycoming Direct Drive Overhaul Manual PN: 60294-7 and upon satisfactory completion of Lycoming Overhaul Manual (Direct Drive Engines) Section 9 (Test Procedures) this engine will be considered airworthy and can be returned to service. -----END----- William A. Latham, Jr. AP3557002 

03/15/2023, Lycoming O-320-E3D, SN: L-37620-2A, TT: UNK, SMOH: 0.00. Engine test runs as outlined in Lycoming Direct Drive Overhaul Manual PN: 60294-7, Section 9 Test Procedures are required prior to engine being returned to service. -----END----- William A. Latham, Jr. AP3557002 

Created 04/17/2023 S/N L-37620-27A Engine 1 Tach 2600.39 TTIS 4231.80 TSOH 0.00
Installed overhauled upgraded engine on N56659. Installed overhauled magnetos P/N: 4370 and 4371 and timed in 25 degrees BTDC. Installed overhauled carburetor P/N: 10-5217 S/N: MSC13CB18
ENGINE BREAK-IN PROCEDURE COMPLIED WITH IAW LYCOMING SL1427C EN
Gregory Warton # 3807766 A&P IA Date: 4/17/23 Signature: 

Created 05/05/2023 S/N L-37620-27A Engine 1 Tach 2646.99 TTIS 4278.40 TSOH 46.60
Drained engine oil removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100.
Logan Baker P#4638550 Date: 5/5/23 Signature: 

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KC

Created **05/24/2023** S/N **L-37620-27A** Engine 1 Tach
2698.17 TTIS **4329.58** TSOH **97.78** *N56659*
 Performed a 100 hour inspection IAW FAR 43 appendix D using Piper PA-28-151
 AMM as reference. Research AD's through ad bi-weekly report 2023-11.
 Compressions: 1 74/80 2 74/80 3 74/80 4 79/80. Removed oil filter and cut open, no
 metal found, installed new filter P/N AA48110-2 and added 7qts Aeroshell 100W oil. I
 certify this engine has been inspected IAW a 100 hr. inspection and has been
 determined to be in an airworthy condition.

Josh Kennedy #4653415 Date: 5/24/23 Signature: *[Signature]*

KC

Created **06/02/2023** S/N **L-37620-27A** Engine 1 Tach **2728.82** TTIS
4360.23 TSOH **128.43**
 Adjusted magneto timing on RH magneto with reference to engine data plate.

Logan Baker P#4638550 Date: 6/2/23 Signature: *[Signature]*

KC

Created **06/23/2023** S/N **L-37620-27A** Engine 1 Tach
2796.89 TTIS **4428.30** TSOH **196.50**
 Performed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-
 28-151 AMM. Researched AD's through bi-weekly report 2023-13. Compressions
 #1 72/80 #2 78/80 #3 66/80 #4 79/80. Drained oil, removed and cut open oil filter.
 No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts
 of Aeroshell W100. Adjusted timing on RH mag using engine data tag as
 reference. Replaced exhaust gasket on #3 cyl.
 I certify that this engine has been inspected in accordance with a 100 HR
 inspection and was determined to be in airworthy condition.

Logan Baker P#4638550 Date: 6/23/23 Signature: *[Signature]*

7/12/23, 3:40 PM

Engine Oil Leak - N56659 Piper Warrior

KC

Created **07/12/2023** S/N **L-37620-27A** Engine 1 Tach **2852.75** TTIS **4484.16**
 TSOH **252.36**

Tighten elbow on oil return line on Cyl #2.

Gregory Warton #3807766 A&P IA Date: 7/12/23 Signature: *[Signature]*

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Created 08/03/2023 S/N L-37620-27A Engine 1 Tach 2893.00 TTIS 4524.41 TSOH 292.61

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Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-161 AMM. Researched AD's through bi-weekly report 2023-15 Compressions #1 72/80 #2 60/80 #3 72/80 #4 70/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of AeroShell W100.

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

Dominic Blewett # P 4848287 Date: 8/3/23 Signature

Dominic Blewett

KC Duplicate Copy See Below

Created 09/11/2023 S/N L-37620-27A Engine 1 Tach 2990.79 TTIS 4622.20 TSOH 390.40

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151/161 AMM. Researched AD's through bi-weekly report 2023-19. No applicable AD's. Compressions #1 74/80 #2 70/80 #3 80 #4 79/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of AeroShell W100. I certify that this engine has been inspected in accordance with a 100 HR inspection and was determined to be in airworthy condition.

Dominic Blewett # P 4848287 Date: 9/11/23 Signature

Dominic Blewett



Created 09/13/2023 S/N L-37620-27A Engine 1 Tach 2990.79 TTIS 4622.20 TSOH 390.40

Removed #3 cylinder due to low compression on initial compressions test. Removed piston rings and replaced with ring set P/N SL5401-SC. Verified ring gaps were within tolerable limits with reference to superior service letter L 04-01A. Reinstalled serviceable piston and cylinder onto engine using gasket set P/N SI 12032-SC with reference to Lycoming overhaul direct drive manual correcting the low compression discrepancy.

Logan Baker P#4638550 Date: 9/13/23 Signature:

Logan Baker



Created 09/11/2023 S/N L-37620-27A Engine 1 Tach 2990.79 TTIS 4622.20 TSOH 390.40

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151/161 AMM. Researched AD's through bi-weekly report 2023-19. No applicable AD's. Compressions #1 74/80 #2 70/80 #3 72/80 #4 79/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of AeroShell W100.

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

Dominic Blewett # P 4848287 Date: 9/11/23 Signature

Dominic Blewett



Created 09/25/2023 S/N L-37620-27A Engine 1 Tach 3035.27 TTIS 4666.68 TSOH 434.88

Remove left Magneto P/N: 4671 S/N: H-W120339. Installed left Magneto P/N: 4371 S/N: 13070448/L-07137. Removed right Magneto P/N: 4370 S/N: 16020225/K-08232. Installed right Magneto P/N: 4370 S/N: L-08227. Timed both Magneto BTDC IAW engine data tag with reference to Piper PA-28-181 AMM 5-20-00.

Dominic Blewett # P 4848287 Date: 9/25/23 Signature

Dominic Blewett

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KC

Created 10/10/2023 Model: O-320-E3D S/N L-37620-27A Engine 1 Tach 3072.85 TTIS

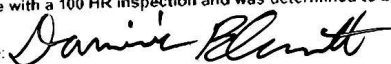
4704.26 TSOH 472.46
Adjusted oil pressure by adding a washer in the oil pressure relief valve.

Gregory Warton # 3807766 A&P IA Date 10/10/23 Signature: 

KC

Created 10/30/2023 Model: O-320-E3D S/N L-37620-27A Engine 1 Tach 3077.77 TTIS 4709.18 TSOH 477.38

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-181 AMM 5-20-00. Researched AD's through bi-weekly report 2023-22. No applicable AD's due at this time. Compressions #1 74/80 #2 68/80 #3 60/80 #4 64/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100. Cleaned, Gapped, Inspected, and reinstalled spark plugs. I certify that this engine has been inspected in accordance with a 100 HR inspection and was determined to be in airworthy condition.


Dominic Blewett # P 4848287 Date 10/30/23 Signature: 

KC

Created 12/20/2023 Model: O-320-E3D S/N L-37620-27A Engine 1 Tach 3157.76

TTIS 4789.17 TSOH 557.37


Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151/161 AMM Sec 1. Researched AD's through bi-weekly report 2023-26 Compressions #1 70/80 #2 69/80 #3 62/80 #4 71/80. Drained oil sump, removed and cut open oil filter. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100. Removed, cleaned, gapped, inspected, tested and reinstalled spark plugs. Ops/leak check good. I certify that this engine has been inspected in accordance with a 100 HR inspection and was determined to be in airworthy condition.

Gregory Warton #3807766 A&P IA Date: 12/20/23 Signature: 

KC

Created 02/23/2024 Model: O-320-E3D S/N L-37620-27A Engine 1 Tach 3235.42 TTIS 4866.83 TSOH 635.03

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151/161 AMM Sec 1. Researched AD's through bi-weekly report 2024-03 Compressions #1 78/80 #2 77/80 #3 62/80 #4 74/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W80. Removed, cleaned, gapped, inspected, tested and reinstalled spark plugs. Ops/leak check good. Removed and replaced # 2 intake gasket P/N SL71973. I certify that this engine has been inspected in accordance with 100 Hr inspection and was determined to be in airworthy condition.

Josh Kennedy A&P#4653415 Date: 2/23/24 Signature: 

KC

Created 04/26/2024 Model: O-320-E3D S/N L-37620-27A Engine 1 Tach 3331.77 TTIS 4963.18 TSOH 731.38

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151/161 AMM Sec 1. Researched AD's through bi-weekly report 2024-09 Compressions #1 73/80 #2 68/80 #3 66/80 #4 78/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100. Replaced 3 spark plugs P/N: UREM40E. Removed, cleaned, gapped, inspected, tested and reinstalled spark plugs. Ops/leak check good. I certify that this engine has been inspected in accordance with 100 Hour inspection and was determined to be in airworthy condition.

Owen Fortney # A&P 4429081 Date: 4/26/24 Signature: 

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Created 04/26/2024 Model: O-320-E3D S/N L-37620-

27A Engine 1 Tach 3331.77 TTIS 4963.18 TSOH 731.38

This engine has been inspected for an Annual Inspection IAW Part 43 Appendix D and Piper PA-28-151/161 AMM Section 3 as a guide. All AD's are current up through FAA Biweekly 2024-08, 04/08/2024-04/21/2024.

I certify that this engine has been inspected in accordance with an ANNUAL inspection and has been determined to be in airworthy condition and is approved for return to service. -----END-----


William A. Latham, Jr. AP3557002IA 

KC

386.5 Created 05/31/2024 Model: O-320-E3D S/N L-37620-27A Engine 1 Tach
3824.32 TTIS 5020.80 TSOH 789.00

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151 AMM. Compressions #1 75/80 #2 72/80 #3 70/80 #4 79/80. Researched AD's through bi-weekly report 2024-10. No applicable AD's due at this time. Drained oil. Removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100. Removed RH magneto P/N 4370 S/N 91070283/ L-08227. Installed Overhauled magneto P/N 4370 S/N H-Y030079. Timed Magnetos with reference to engine data tag.

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


Logan Baker P#4638550 Date: 5/31/24 Signature: 

KC

Created 06/21/2024 Model: O-320-E3D S/N: L-37620-27A Engine:

3912.1 TTIS: 5076.2 TSOH: 844.4

Serviced engine with 7 Quarts of Aeroshell W100 IAW Piper PA-28-151 AMM chapter 12.

Owen Fortney A&P#4429081 Date: 06/21/24 Signature: 

KC

Created 07/09/2024 Model: O-320-E3D S/N L-37620-27A Engine 1 Tach 3943.3

Tach - 3943.3

Replaced RH mag with overhauled mag P/N 4370 S/N H-Y050964 using Lycoming direct drive MM and Piper PA-28-151 AMM as guide, performed ops check, no defects noted.

Landon Reeder A&P 4369883 Date: 7/9/24 Signature: 

07/26/24 Created 07/26/24 Model: O-320-E3D S/N L-37620-27A Engine 1 Tach 3953.9 TTIS 5,118 TSOH 886.2

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151 AMM. Compressions #1 77/80 #2 73/80 #3 66/80 #4 78/80. Researched AD's through bi-weekly report 2024-14. No applicable AD's due at this time. Drained oil. Removed and cut open oil filter. No metal found. Installed new oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100. Replaced #3 lower spark plug with new spark plug P/N UREM40E. Removed, cleaned, reinstalled fuel gasculator and screen. Removed, cleaned, sealed, reinstalled fuel gasculator fitting and lower electric fuel pump fitting. Checked fuel system for leaks, no defects noted. Performed engine ops check, no defects noted.

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

Landon Reeder A&P 4369883 Date: 5/31/24 Signature: 

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Created 09/09/2024 Model O-120-EJD S/N L-17620-27A TACH 4049.2 TTIS 5215.3 TSOH 983.5

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Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-161 AMM Compressions #1 76/80 #2 78/80 #3 66/80 #4 75/80
Researched AD's through bi-weekly report 2024-18. No applicable AD's noted. Drained oil. Removed and cut oil filter for inspection. No abnormalities
found. Installed Tempet oil filter P/N AA48110-2 and serviced system with 7qts of Aeroshell W100. Spark plugs removed, cleaned, gapped, inspected,
and reinstalled with new MS 5769-21 gaskets. Forward gasculator filter and lower electric fuel pump filters inspected and cleaned. Checked fuel
system for leaks, no defects noted. Replaced leaking T fitting in the oil pressure sensor line. Performed engine ops check. I certify that this engine
has been inspected in accordance with a 100 HR inspection and was determined to be in airworthy condition.

Dwayne Konicek A&P 2060898

O.

WORK

Created: Thu, 11/07/24 Model: O-320-e3d S/N: L-37620-27A

TACH: 4144.6 TTIS: 5312.8 TSOH: 1081.0

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151/161 AMM 5-20-00
and Lycoming direct drive MM. Compressions #1 76/80, #2 77/80, #3 70/80, #4 79/80. Drained engine oil
and removed engine oil filter, cut open, and inspected for particulates. None noted. Installed new engine oil
filter P/N 48110-2. Serviced oil sump with 7qts Aeroshell W80. Removed, cleaned, inspected, tested, and
reinstalled spark plugs. Researched AD's through bi-weekly report 2024-22. No applicable AD's due at
this time. Performed engine ops check, no defects noted.

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

Landon Reeder

A&P #4369883

Date: Thu, 11/07/24

Signature: 

KC

Created 04/25/2025 Aircraft Registration Number: N56659 Make: Lycoming Model: O-320-
D3G S/N: L-37620-27A TT: 4193.12 TTIS: 5312.80 TSOH: 1081.00

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151/161 AMM 5-20-00 and
Lycoming O-320 MM. Researched AD's through bi-weekly report 2025-08. No applicable AD's due at this time.
Compressions #1 76/80 #2 73/80 #3 68/80 #4 78/80. Drained oil sump, removed and cut open oil filter. No metal
found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W80. Cleaned, inspected,
gapped, tested, and reinstalled spark plugs. Tightened and re-safety wired oil tipstick tube. Replaced LH magneto
gasket P/N SL12681. Timed both magnetos with reference to engine data plate. Replaced #2 and #4 intake gasket
P/N SL71973 and torqued. All work completed with reference to Piper PA-28-151/161 AMM, Lycoming O-320 MM,
Lycoming Direct Drive Overhaul manual and SSP 177-5 Performed engine run up/ ops check and leak check, no
defects noted. Test run satisfactory.

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

Logan Baker

A&P 4638550

Date: 4/25/25

Signature: 

KC

Created 04/24/2025 Aircraft Registration Number: N56659 Make: Lycoming Model: O-320-
D3G S/N: L-37620-27A Tach 4193.12 TTIS: 5312.80 TSOH: 1081.00

Completed an ANNUAL inspection IAW FAR 43 app. D using Piper PA-28-151 AMM as guide. ADs checked through
bi-weekly report 2025-08.

This engine has been inspected in accordance with an ANNUAL inspection and has been determined to be in an
airworthy condition.

Dwayne Konicek 2060898/A

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