

The Standard

ENGINE LOG

ASA-SE-1

Engine Record General Information

Manufacturer LYCOMING Model O-360-A4M
Serial L-39267-36A Type Certificate E-286

This engine is currently installed in aircraft: _____

Minimum Octane Fuel 91/96 Oil Grade: Summer _____ Winter _____

Magneto Time 25° BTDC Point Setting _____ Firing Order 1-3-2-4

Spark Plug Gap .16-21

Manufacturer's Recommended Overhaul at 2000 hours

YEAR 20____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description 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.)
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10/29/2024, Lycoming O-360-A4M, SN: L-39267-36A, TT: 3481.0. SMOH: 0.00. Major engine overhaul has been performed in accordance with Lycoming Overhaul Manual (Direct Drive Engines) PN: 60294-7, Lycoming SB240W. Crankcase, Accessory Housing and Oil Sump were overhauled by Crankcase Services, Sands Springs, Ok. Crankshaft SN: R58229-1 and connecting rods PN: LW-11750 and Rocker Arms PN: 17F19357 were overhauled by Rick Romans Inc, Tulsa, Ok. Installed four Standard Nitrated Lycoming cylinders PN: LW-12427 overhauled by Ace Inc. Greeley, Co. Pistons installed PN: SL75089A all piston weights 1257 grams. Piston Rings Sets PN: SL 3601-SC installed IAW Superior Air Parts Inc. Service Letter #L04-01-A. New 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, Tappets PN: 72877, Plungers PN: SL78290, Sockets PN: SL15B21319, Rocker Arm Shafts PN: SL13790A, Rocker Shaft Buttons PN: SL12892, Piston Pins PN: LW-14078, Piston Plugs PN: 72198, Rod Bolts PN: SL78027, Rod Nuts PN: LW-12186, Oil Pump Housing PN: SL78531 Rev. S, Oil Pump Impeller kit PN: AEL18109A-S, Oil Pump Drive Shaft PN: SL61174A, Oil Suction Screen PN: SL70484, Suction Screen Plug PN: 69335, Spacer Tach Drive PN: 68753, Oil Relief Valve Spring PN: SL61084, Oil Relief Valve Ball PN: SL1028B, Vernatherm PN: SL53E19600 Rev. D, Vacuum Pump Drive Gear PN: 72970, Vacuum Pump Gear Thrust Washer PN: 71596, Idler Gear Shafts PN: LW-13796, Idler Gear PN: 72231, Push Rods PN's:

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YEAR 20____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description 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.)
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15F28835-34 & 35, Thru-Studs PN: SL76220, Main Bearings Nose PN: SL13884AM006, Main Bearings Intermediate & Rear PN: SL16711M006, Rod Bearings PN: SL13521A, Cylinder Nuts PN: STD-2090 & SL-383-B, Engine Driven Fuel Pump PN: AF-15472 SN: 1A8U24, Fuel Pump Plunger PN: 61544. Magnetos and carburetor were not supplied with engine. All AD's and Service Bulletins / Letters / Instructions have been complied with up through the above listed date and FAA Biweekly 2024-10, 10/07/2024-10/20/2024. 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



10/29/2024, Lycoming O-360-A4M, SN: L39267-36A, TT: 3481.0, 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-----

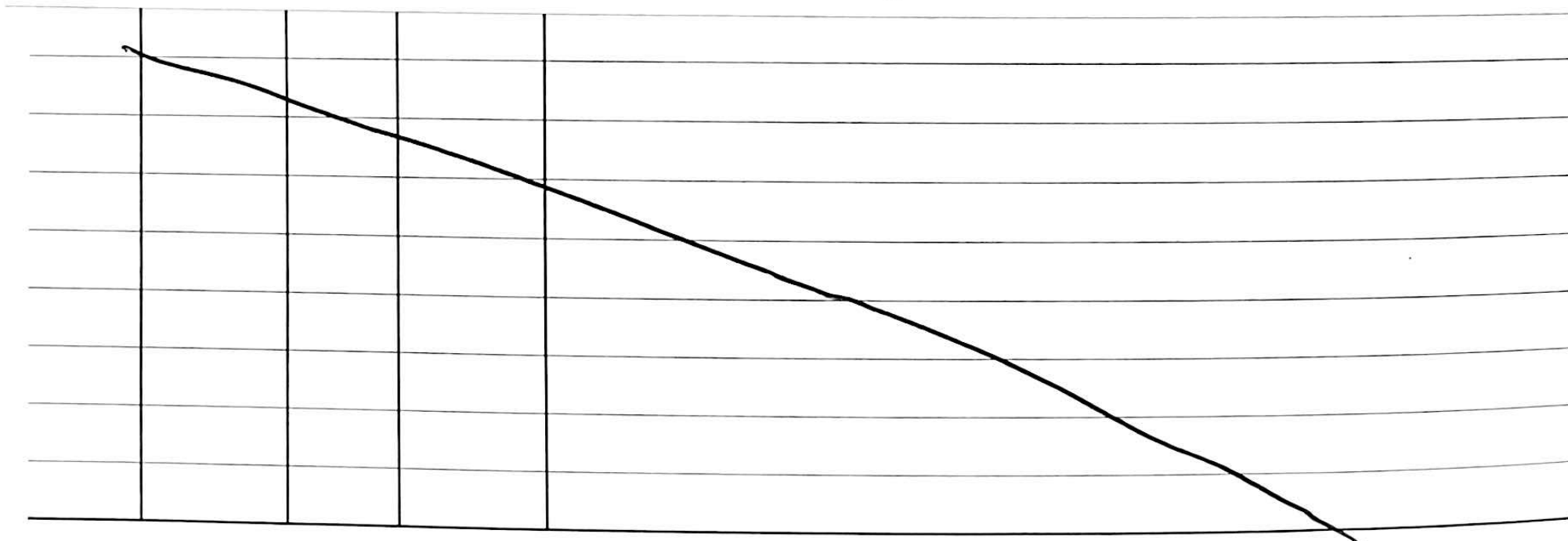
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YEAR 20____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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10/29/2024, Lycoming O-360-A4M, SN: L-39267-36A, TT: 3481.0, SMOH: 0.00. Engine oil pressure relief valve housing is not safety wired to facilitate adjustment on initial ground run. Must be sifted prior to flight. -END-

William A. Latham, Jr. AP3557002



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Created **03/12/2025** Aircraft Registration Number: **N3038N** Make: **Lycoming**
Model: **O-360-A4M** S/N: **L-39267-36A** TT: **3621.60** TTIS: **3481.0** TSOH: **0.0**

Installed this Lycoming engine O-360-A4M on Piper Archer PA-28-181 registration N3038N. Installed four new engine mount bushings P/N 94011-20 using two new lower engine mount bolts P/N AN7-44A, two new upper engine mount bolts P/N AN7-43A, and four new engine mount nuts P/N 477-664 torqued in sequence to 500inlbs. Installed overhauled RH magneto P/N 4370 S/N H-Y090242 and overhauled LH magneto P/N 4371 S/N H-Y120229 using two new mag gaskets P/N SL12681. Timed magnetos to 25 degrees BTDC per engine data plate. Installed new engine oil cooler P/N 8001080 S/N 626 and two new engine oil cooler type D hoses P/N 566-307. Installed new Tempest oil filter P/N 48110-2. Installed overhauled carburetor P/N 10-5193 S/N MS1C4V07 and confirmed mixture/throttle controls reach all stops. Installed new carb air box gasket P/N MC63684-04. Installed new ignition harness P/N M2992R S/N M694027. Installed eight new spark plugs P/N UREM40E. Removed oil sump plug and installed new Curtis drain valve P/N CCB-37000. Adjusted oil pressure relief valve, tightened valve, and safetyed. Performed engine run up, leak check, break in, and test flight IAW Lycoming O-360DDOM section 9 and SL1427C. Ops and leak check satisfactory. All 8130-3 forms added to permanent records. All work done with reference to Piper PA-28-181 AMM, Lycoming O-360MM, Lycoming SSP-1776, and AC43.13B.

Landon Reeder A&P 4369883 Date: 3/12/25 Signature:

YEAR
20
DATE



Created **03/12/2025** Aircraft Registration Number: **N3038N** Make: **Lycoming**
Model: **O-360-A4M** S/N: **L-39267-36A** TT: **3621.60** TTIS: **3481.00** TSOH: **0.00**

Replaced leaking crankshaft seal with new seal P/N LW-13792 using Lycoming SI1324D, Lycoming O-360MM, and PA-28-181 AMM as guide. Performed run up and leak check. No defects noted.

Landon Reeder A&P 4369883 Date: 3/12/25 Signature:

A handwritten signature in black ink, appearing to read 'Landon Reeder'.



Created **03/14/2025** Aircraft Registration Number: **N3038N** Make: **Lycoming** Model: **O-360-A4M** S/N: **L-39267-36A** TT: **3631.70** TTIS: **3491.10** TSOH: **10.10**

Removed engine oil filter and oil suction screen and performed metal particulate inspection Per Lycoming SB480F. No defects noted. Installed new engine oil filter P/N AA48110-2. Performed engine run up and leak check. No defects noted.

Landon Reeder A&P 4369883 Date: 3/14/25 Signature:

A handwritten signature in black ink, appearing to read 'Landon Reeder'.

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Created **03/26/2025** Aircraft Registration Number: **N3038N** Make: **Lycoming** Model: **O-360-A4M**
S/N: **L-39267-36A** TT: **3643.90** TTIS: **3503.30** TSOH: **22.30**

Performed engine 25 hour oil change. Drained oil sump. Removed, cut open, and inspected engine oil filter, no defects noted. Installed new engine oil filter P/N AA48110-2. Removed upper spark plugs to check for evidence of excessive engine oil consumption, none noted. Reinstalled upper spark plugs. Serviced sump with 7Qts Aeroshell 80W. Performed engine run and leak check, no defects noted.

Landon Reeder A&P 4369883 Date: 3/26/25 Signature:

Created **06/04/2025** Aircraft Registration Number: **N3038N** Make: **Lycoming** Model: **O-360-A4M**
S/N: **L-39267-36A** TT: **3733.50** TTIS: **3592.90** TSOH: **111.90**

Engine driven fuel pump reported low fuel pressure, R/R P/N: LW15472.

Frank Horveath A&P 5135166 Date: 6/4/25 Signature:

DATE _____

London Feb

[illegible]

Created 07/10/2025

Aircraft Registration Number: N3038N

Make: Lycoming

Model: O-360-

YEA

A4M S/N: L-39267-36A TT: 3769.60 TTIS: 3629.00 TSOH: 148.00

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DATE

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-181 AMM 5-20-00 and Lycoming O-360 MM. Researched AD's through bi-weekly report 2025-13. No applicable AD's due at this time. Compressions #1 78/80 #2 79/80 #3 78/80 #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. Cleaned, inspected, gapped, tested, and reinstalled spark plugs. Repaired cracked #4 cylinder engine baffling via patch per 43.13. Removed propeller for crankshaft seal replacement. Replaced front crankshaft seal P/N LW-13792. Reinstalled same propeller and safety wired prop bolts. Replaced rotted fuel primer hose P/N 565-525. Performed engine run up and leak check, no defects noted.

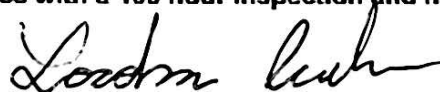
I certify that this engine has been inspected in accordance with a 100 hour inspection and has been determined to be in an airworthy condition.

Landon Reeder

A&P 4369883

Date: 7/10/25

Signature:



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