

DATE

TOTAL
TIME
IN
SERVICETOTAL
TIME
SINCE
OVERHAUL

This document is to serve as a certification of
Major Overhaul and Block Test Run by
Certified Engines Unlimited, Inc.

MFG: Textron Lycoming MODEL: O-360 A4M
S/N: L-39392-36A TOTAL TIME: 8729.80 hrs

AD NOTES: SEE REAR OF LOGBOOK

Pertinent details of the work performed are on file at this agency under

Invoice/Work Order: 82617 67155 Date: 08/29/2025

Signature of authorized representative:

CERTIFIED ENGINES UNLIMITED
4000 NW 145th Street, Opa-locka, FL 33054 USA
Phone: 305-685-8331 Email: allen@ceu.aero
EASA.145.4301 FAA CRS KG4R309M

CERTIFIED ENGINES UNLIMITED, INC. FAA CRS# KG4R309M
1630 SW 75th Ave. Pembroke Pines, Florida 33023 Phone: (305)685-8331

LIMITED OVERHAUL WARRANTY

- Subject Matter and Scope of Warranty.** Certified Engines Unlimited, Inc. (hereafter referred to as "CEU") warrants each overhauled engine to be free from defects in material workmanship. This Warranty is expressly subject to the terms and conditions set forth below and shall not apply outside the operational periods listed or to any engine which has been subject to misuse, neglect, accident or damage from the elements or which has been installed, repaired, maintained or altered in any manner which in the judgment of CEU has had an adverse effect on the performance or reliability of engine or part.
- Time Limits.** This Warranty for parts and labor extends for a period of nine (9) months from the date of service or two hundred (200) hours, whichever occurs first. An additional prorated warranty extends, parts only, to six hundred (600) hours on direct engines, and four hundred (400) hours on geared engines. CEU considers the frequent use and operation of an engine to be an integral factor in extending engine life. For this reason, CEU considers warranty hours based upon a minimum usage of 30 hours a month, regardless of actual operation hours.
- Express Conditions.** As a time and condition of this Warranty, the customer is required to follow factory recommended service procedures and maintenance guidelines.
- Proper maintenance logbooks are to be kept by and maintained by the customer and shall be furnished to CEU on demand as a condition of the Warranty.**
- Limitations and Exclusions.** All parts and labor are to be approved by CEU prior to commencement of work under this Warranty. CEU is responsible only for the cost of reasonable labor and materials necessary to repair or replace the parts CEU determines to be defective in material or workmanship at CEU's place of business, located at Pembroke Pines, Florida. Under no circumstances shall CEU be responsible for charges in the removal and reinstallation of defective parts or engines.

REPRESENTATIONS, EXPRESS OR
LIMITED TO, ANY WARRANTY OF
IMPLIED WARRANTY ARISING FROM
THIS IS ALSO IN UEL OF ANY OTHER
INCLUDING ANY RIGHT IN STRICT
CEU, AND CEU'S LIABILITY ON SUCH
PART WHICH GIVES RISE TO THE

WARRANTY, CONTRACT OR ALLEGED
OTHER DAMAGE, INCLUDING BUT
ENGINE OR AIRCRAFT OR COST OF
REPAIRS OR CANCELLATIONS.
UNLESS IT CAN BE DETERMINED
DAMAGE BY CEU. ACCESSORY ITEMS
ITEMS.

FAA Airworthiness Directives Compliance Record

Company:

Category: Engine

Manufacturer: Textron Lycoming

Model: O-360-A4M

Position:

P/N: O-360-A4M

S/N: L-39392-36A

Aircraft Registration No:

Vernon Revision#29/2025

Issue Number Effective Date Amendment #	Description	Complied	Method of Compliance	Recur	Next Due	Facility Cert No. / Type Authorized By Signed
2024-21-02 12/5/2024	[Recurring] To Prevent Connecting Rod Failure. The Unsafe Condition, if Not Addressed, Could Result in Engine Failure, an IFSD, and Loss of Control of the Aircraft.	R/29/2025 Hrs: -- C: --	CONN. ROD BUSHING P/N SL13923A INSTALLED AT TIME OF ENGINE OVERHAUL	Yes	D: -- Hrs: -- C: --	Certified Engines Unlimited, Inc. KG4R309M/FAA CRS Frank Neves, Jr.
2017-16-11 8/15/2017	To prevent connecting rod failure which could result in uncontained engine failure, total engine power loss, contd.	R/29/2025 Hrs: -- C: --	C/W CONN. ROD BUSHING P/N SL13923A INSTALLED AT TIME OF ENGINE OVERHAUL	No	D: -- Hrs: -- C: --	Certified Engines Unlimited, Inc. KG4R309M/FAA CRS Frank Neves, Jr.
2015-02-07 3/1/2015	To prevent the propeller governor shaft set screw from coming loose, causing damage to the engine and, contd.	R/29/2025 Hrs: -- C: --	N/A MODEL	No	D: -- Hrs: N/A C: --	Certified Engines Unlimited KG4R309M/Part 145 CRS Frank Neves
2012-19-01 10/24/2012	To prevent failure of the crankshaft, which will result in total engine power loss, in-flight engine, contd.	R/29/2025 Hrs: -- C: --	C/W Lycoming Mandatory Service Bulletin (MSB) 569A, & Supplement No. 1 to MSB No. 569A, CRANKSHAF T S/N 537931977 NOT ON LIST	No	D: -- Hrs: N/A C: --	Certified Engines Unlimited KG4R309M/Part 145 CRS Frank Neves

©Vernon

8/29/2025 10:08:56 AM

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Signed
(Signature of authorized individual)

For: Certified Engines Unlimited

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NC.
309M

and inspected in
airworthy for return

ION!
vided if all oil fed
cleaned, tagged and
at time of engine
prop governor, oil
fuel & oil lines.

any repairs or

2025

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																																																																																								
				<p>This Lycoming engine, model O-360 A4M, s/n L-39392-36A, was Overhauled by Certified Engines Unlimited, Inc., of Pembroke Pines, Florida, according to factory recommended procedures, specifications, limits & pertinent Federal Aviation Regulations.</p> <p>All internal steel parts were Magna-fluxed by Aviation Propellers Inc, CRS # ME4R359M & all non-ferrous materials were checked for cracks. Guidelines from the Lycoming Table of Limits SSP#1776 & Overhaul Manual #60294-7-14 were followed at time of overhaul.</p> <p>Installed RH & LH Slick Magnetos, OHC by Quality Aircraft Accessories, CRS # 9QFR310C. Supplied Carburetor, OHC by D & G Supply, CRS # NK2R034L. Installed Fuel Pump, OHC by Aero Accessories, CRS # YV4R688M. All 8130-3 forms received from the approved accessory suppliers are located at the end of this logbook.</p> <p>Installed Crankshaft, s/n V537931977, n/a AD 2006-06-16 by model. Installed Camshaft, reground to factory specs by Rick Romans, CRS # BE2R713K. Installed 4 Nickel Plated OHC Cyl Assys (no present applicable AD's or SB's), a new Champion Aero Ignition harness, NEW Champion spark plugs & a NEW Champion Oil Filter.</p> <p>Certified Engines Unlimited Inc **** Pembroke Pines, Fla USA ****FAA CRS#KG4R309M Inv/wo # 82617/67155 Date: August 29, 2025</p> <p>Authorized Signature:  Frank Neves, Jr.</p>																																																																																								
				<p>Recommended parts listed in the Lycoming Overhaul Manual & Service Bulletin SB#240W were installed at time of overhaul.....(see list below):</p> <p>*FAA-PMA Parts are frequently substituted for Textron-Lycoming factory parts.</p> <table border="0"> <tbody> <tr> <td>1 SL75439-1</td> <td>GASKET SET</td> <td>4 SL13444-1</td> <td>PISTON PIN ASSY</td> </tr> <tr> <td>1 LW15472</td> <td>FUEL PUMP - OVERHAULED</td> <td>1 78531</td> <td>BODY OIL PUMP</td> </tr> <tr> <td>1 CH48110-1</td> <td>SPIN-ON OIL FILTER</td> <td>4 SL13790A</td> <td>ROCKER SHAFT</td> </tr> <tr> <td>2 SL13884A</td> <td>FRONT C/SHAFT BEARING</td> <td>8 SL12892</td> <td>THRUST BUTTON</td> </tr> <tr> <td>4 SL16711A</td> <td>CRANKSHAFT BEARING</td> <td>4 SL69603</td> <td>INTAKE HOSE</td> </tr> <tr> <td>8 SL13521A</td> <td>CONN ROD BEARING</td> <td>4 SL13923A</td> <td>CONN ROD BUSHING</td> </tr> <tr> <td>8 15B26588</td> <td>LIFTER BODY</td> <td>1 13S19646M</td> <td>CRANKSHAFT GEAR, MODIFIED</td> </tr> <tr> <td>1 SL-STD-1211</td> <td>EXPANSION PLUG</td> <td>4 SL-STD-1821</td> <td>DRAIN HOSE</td> </tr> <tr> <td>1 SL-STD-2213</td> <td>CRANKSHAFT BOLT</td> <td>8 SL75081</td> <td>ROD BOLT</td> </tr> <tr> <td>1 SL1028-B</td> <td>BALL-CHROME ALLOY</td> <td>8 SL12188</td> <td>CONN ROD NUT</td> </tr> <tr> <td>1 SL61084</td> <td>OIL PRESSURE RELIEF SPRING</td> <td>1 75121</td> <td>TACH DR SHAFT</td> </tr> <tr> <td>1 05K19423-S</td> <td>OIL PUMP IMPELLER KIT</td> <td>1 STD-2231</td> <td>RING-INTERNAL RETAINING</td> </tr> <tr> <td></td> <td></td> <td>8 15B26066</td> <td>PLUNGER ASSY</td> </tr> <tr> <td></td> <td></td> <td>1 53E22144</td> <td>VALVE ASSY</td> </tr> <tr> <td></td> <td></td> <td>3 LW-31-0.94</td> <td>BOLT</td> </tr> <tr> <td></td> <td></td> <td>8 REM40E</td> <td>SPARK PLUG - MASSIVE WIRE</td> </tr> <tr> <td></td> <td></td> <td>1 43710H</td> <td>MAGNETO OHC</td> </tr> <tr> <td></td> <td></td> <td>1 43700H</td> <td>MAGNETO OHC</td> </tr> <tr> <td></td> <td></td> <td>1 M4001R</td> <td>HARNES (COMPLETE), RED</td> </tr> <tr> <td></td> <td></td> <td>1 SL-STD-1410</td> <td>NUT</td> </tr> <tr> <td></td> <td></td> <td>8 SL74637</td> <td>ROCKER ARM BUSHING</td> </tr> <tr> <td></td> <td></td> <td>4 SC</td> <td>NICKEL PLATED OHC CYL ASSYS</td> </tr> </tbody> </table> <p>After final assembly, this engine was run-in on test stand for a period of three hours with all temperatures, pressures & performances within those limits as prescribed by the factory. Oil filter checked clean.</p> <p>Airworthiness directives complied with at overhaul are listed at the rear of this logbook. This engine is approved for return to normal service.</p> <p>Certified Engines Unlimited Inc **** Pembroke Pines, Fla USA ****FAA CRS#KG4R309M Inv/wo # 82617/67155 Date: August 29, 2025</p> <p>Authorized Signature:  Frank Neves, Jr.</p>	1 SL75439-1	GASKET SET	4 SL13444-1	PISTON PIN ASSY	1 LW15472	FUEL PUMP - OVERHAULED	1 78531	BODY OIL PUMP	1 CH48110-1	SPIN-ON OIL FILTER	4 SL13790A	ROCKER SHAFT	2 SL13884A	FRONT C/SHAFT BEARING	8 SL12892	THRUST BUTTON	4 SL16711A	CRANKSHAFT BEARING	4 SL69603	INTAKE HOSE	8 SL13521A	CONN ROD BEARING	4 SL13923A	CONN ROD BUSHING	8 15B26588	LIFTER BODY	1 13S19646M	CRANKSHAFT GEAR, MODIFIED	1 SL-STD-1211	EXPANSION PLUG	4 SL-STD-1821	DRAIN HOSE	1 SL-STD-2213	CRANKSHAFT BOLT	8 SL75081	ROD BOLT	1 SL1028-B	BALL-CHROME ALLOY	8 SL12188	CONN ROD NUT	1 SL61084	OIL PRESSURE RELIEF SPRING	1 75121	TACH DR SHAFT	1 05K19423-S	OIL PUMP IMPELLER KIT	1 STD-2231	RING-INTERNAL RETAINING			8 15B26066	PLUNGER ASSY			1 53E22144	VALVE ASSY			3 LW-31-0.94	BOLT			8 REM40E	SPARK PLUG - MASSIVE WIRE			1 43710H	MAGNETO OHC			1 43700H	MAGNETO OHC			1 M4001R	HARNES (COMPLETE), RED			1 SL-STD-1410	NUT			8 SL74637	ROCKER ARM BUSHING			4 SC	NICKEL PLATED OHC CYL ASSYS
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DATE	Work Order #	Aircraft Type / model	Aircraft Registration No.	Aircraft Serial No.	ATT	TACH
10/23/2025	30224168	Piper PA28-181	N30469	2843589		2729.5

Engine Log Entry:

Engine Make: Lycoming Model: O-360-A4M SN# 1003514 TTSN: 2652.4 TTSMOH: 0.0

Complied with 100/ Annual Inspection. REF: Piper PA28-181 Maintenance Manual PN# 761-883 Chapter 5 ,

Checked AD's though Biweekly 2025-21, There are no current AD's due at this time. AD's Complied with at overhaul.

Engine was overhauled by CRS# KG4R309M. 8/29/2025. New engine logbook started on 8/29/2025.

Replaced engine mounts (4 each) with new PN# J9613-40, with new hardware. Installed new oil cooler PN# 8001080 SN# 727. Flushed existing oil lines as required. Installed engine on aircraft. Serviced engine with Philips 20/50 Mineral oil with new filter PN# AA48110-2. Installed new air filter PN# 460-632. Reinstalled propeller, back plate and spinner. Operational and leak checked satisfactory.

I certify This ENGINE has been inspected ICW a 100 hr/ Annual inspection and found to be in airworthy condition and is approved for return to service.

I certify that the work performed was accomplished in accordance with the applicable chapters of the Airframe/Engine maintenance manual and current regulations of the Federal Aviation Administration. Only those items specified in the Work Order have been inspected and found to be Airworthy and Return to Service. No other representations concerning Airworthiness are expressed or implied. Pertinent details of the above work are filed at ASG Aerospace LLC. under the Work Order number listed above.

Arthur Thompson

A&P547214729IA

ASG Aerospace LLC.

12906 SW 139 Ave. Miami, FL 33186. Phone: 305-253-0802; Fax: 786-221-4177

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