

N364ES

ENGINE LOG BOOK



Engine Log & Maintenance Record

LOG #: 1

RECORD OF LYCOMING IO-360-L2A RL-25219-51E
(MAKE) (MODEL) (SERIAL)

AIRCRAFT REGISTRATION NUMBER: N364ES

FROM APRIL 10 2017 TO _____ 20____

(TACH)
DETAILING TIME FROM 1812.3 TO _____
(HOURS) (HOURS)

If used on a multi-engine aircraft: _____Right _____Left _____Front _____Rear

Rebuilt Engine Certificate of Conformance

LYCOMING

This is to certify that the engine as described hereinafter has been REBUILT in accordance with the applicable Lycoming specifications. It has been determined airworthy to return to service and is in a condition for safe operation. All applicable Federal Aviation Administration Airworthiness Directives and Lycoming Service Publications have been complied with. All accessories as part of the type certificate are new or newly rebuilt. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Part Number RENPL-RT10230
Serial Number RL-25219-51E
Engine Model IO-360-L2A
Work Order AR676955
Total Time 0

Charles Hens 4/15/17
Authorized Representative Date

Production Certificate #3

Form 2481 Rev 05/13

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

Engine Log

Serial # RL-25219-51E

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
BROUGHT FORWARD					

- 29-Mar-2017 1812.3 TACH: 2499.2 TTAF: 0.0 TTE: 0.0 TSZero
1. Installed rebuilt aircraft engine (Lycoming IO-360-L2A; S/N: RL-25219-51E), L&R magnetos, ignition harnesses, mechanical fuel pump, fuel servo, fuel flow divider, flywheel and ring gear as one complete assembly using new rubber isolation mount kit (J-23502-1)
 2. Installed new SkyTec starter (P/N: 149-NL; S/N: H-Q110605)
 3. Installed O/H alternator and filter assy. (P/N: 9910591-11; S/N: A174176 & LS03-01004)
 4. Installed O/H oil cooler assembly (P/N: 8604R; S/N: 7069) using new fittings and hoses
 5. Inspected and installed aircraft exhaust system, airbox assembly, engine baffling, control cables, tach drive cable, electrical wiring, and ducting.
 6. All firewall forward fuel and oil hoses have been replaced with new teflon units with type-D firesleeving by Specialty Hose Aerospace.
 7. Installed McCauley propeller (Mod # 1A170E/JFA7658; S/N: TL005) after overhaul by Piedmont Propulsion Systems, LLC. Ref. W.O. P27814 per Cessna Service Manual Propeller installation instructions. Installed using propeller spacer per Cessna C-172-S Maintenance Manual instructions (172RMM16)
 8. Serviced with 7 qts of Phillips 20W50 Mineral Oil but left CH48110-1 factory installed oil filter in place until next oil change
 9. Engine has had spark plugs removed, engine pulled through several revolutions until oil pressure gauge indicated 10 PSI, engine starter engaged and allowed to turn engine oil pressure gauge indicated 35 PSI to pre-oil engine prior to engine start
 10. Re-installed and torqued bottom sparks in preparation to start engine

I certify that this engine is in "ZERO time Rebuilt Condition" and that the engine times are as reported above. This engine is authorized to perform initial break in flight.

New River Aero
Blacksburg, VA 24060
540-951-0080

Jeffrey S. Hoprich
Jeffrey S. Hoprich A&P212562013IA

- 17-Jul-2017 1840.9 TACH: 2527.8 TTAF: 28.6 TTE: 28.6 TSZero
1. Drained oil and decapped oil filter. No foreign material found.
 2. Installed new oil filter (AA48110-2)
 3. Serviced with 7 qts of Phillips 20W50 Mineral oil.
 4. Inspection of hoses, wiring, ducts, and control cables for security, deterioration, and chafing visually checked good.
 5. Operational and leak checks good. No defects noted at this time.

Engine is approved for return to service

New River Aero
Blacksburg, VA 24060
540-951-0080

Jeffrey S. Hoprich
Jeffrey S. Hoprich A&P212562013IA

- 21-Nov-2017 1888.5 TACH: 2575.4 TTAF: 76.2 TTE: 76.2 TSZero
1. Drained oil and decapped oil filter. No foreign material found.
 2. Installed new oil filter (AA48110-2)
 3. Serviced with 7 qts of Phillips 20W50 Mineral oil.
 4. Inspection of hoses, wiring, ducts, and control cables for security, deterioration, and chafing visually checked good.
 5. Operational and leak checks good. No defects noted at this time.

Engine is approved for return to service

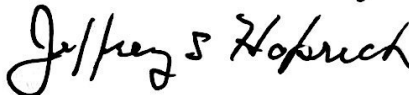
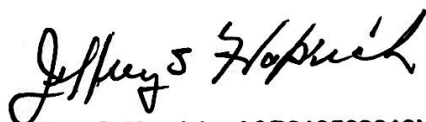
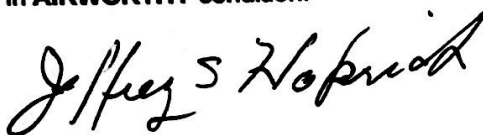
New River Aero
Blacksburg, VA 24060
540-951-0080

Jeffrey S. Hoprich
Jeffrey S. Hoprich A&P212562013IA

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Engine Log

Serial # _____

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
30-Jan-2018	1905.9 TACH:	2592.8 TTAF:	93.6 TTE:	93.6 TSZero	
Annual Inspection 1. Compression Check: 1) 75/80 2) 79/80 3) 79/80 4) 80/80 2. Cleaned, gapped, checked, rotated, and reinstalled spark plugs. 3. Reset both magneto to engine timing at 25° BTDC. 4. Removed, cleaned, inspected and reinstalled fuel injectors 5. Put wire back into heater muff shroud to heater valve duct. 6. AD: 75-08-09, DNA by Eng. Mod. # 7. AD: 91-08-07, DNA by Eng. Mod. # 8. C/W: AD *15-19-07, Inspected external fuel injector lines IAW SB 342G and par. (e). of this AD. Next due: 2005.9 Tach 9. C/W: AD: 18-02-04, by research with Cessna and log books, muffler installed this installed by factory and is a Wal-Colmonoy unit. 10. Engine OPS and leak checked satisfactory. I certify that this engine has been inspected in accordance with an ANNUAL Inspection and was found to be in AIRWORTHY condition. Approved for return to service. <div style="display: flex; justify-content: space-between;"> <div> New River Aero Blacksburg, VA 24060 540-951-0080 </div> <div>  Jeffrey S. Hoprich A&P212562013IA </div> </div>					
5-Jun-2018	1935.5 TACH:	2622.4 TTAF:	123.2 TTE:	123.2 TSZero	
1. Drained oil and decapped oil filter. No foreign material found. 2. Installed new oil filter (AA48110-2) 3. Serviced with 7 qts of Phillips 20W50 Mineral oil. 4. Cleaned, gapped, checked, rotated, and reinstalled spark plugs. 5. Inspection of hoses, wiring, ducts, and control cables for security, deterioration, and chafing visually checked good. 6. Operational and leak checks good. No defects noted at this time. Engine is approved for return to service <div style="display: flex; justify-content: space-between;"> <div> New River Aero Blacksburg, VA 24060 540-951-0080 </div> <div>  Jeffrey S. Hoprich A&P212562013IA </div> </div>					
23-Mar-2019	1986.01 TACH:	2672.91 TTAF:	173.71 TTE:	173.71 TSZero	
Annual Inspection 1. Compression Check: 1) 80/80 2) 78/80 3) 79/80 4) 78/80 2. Drained oil and decapped oil filter. No foreign material found. 3. Installed new Tempest oil filter (AA48110-2) 4. Serviced with 7 qts of Phillips XC20W50 oil. 5. Cleaned, gapped, checked, rotated, and reinstalled spark plugs. 6. Inspected both magnetos. Set engine timing at 25° BTDC. 7. Removed, cleaned, inspected and reinstalled fuel injectors 8. C/W: AD *15-19-07, Inspected external fuel injector lines IAW SB 342G and par. (e). of this AD. Next due: 2096.01 Tach or after any fuel Injection line work performed. 9. Engine OPS and leak checked satisfactory. I certify that this engine has been inspected in accordance with an ANNUAL Inspection and was found to be in AIRWORTHY condition. Approved for return to service. <div style="display: flex; justify-content: space-between;"> <div> New River Aero Blacksburg, VA 24060 540-951-0080 </div> <div>  Jeffrey S. Hoprich A&P212562013IA </div> </div>					

Engine Log

Serial # _____

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
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13-Sep-2019 2022.60 TACH: 2709.5 TTAF: 210.30 TTE: 210.30 TSZero

- 1. Drained oil and decapped oil filter. No foreign material found.
- 2. Installed new oil filter (AA48111)
- 3. Serviced with 7 qts of Phillips 20W50 Mineral oil.
- 4. Inspection of hoses, wiring, ducts, and control cables for security, deterioration, and chafing visually checked good.
- 5. Operational and leak checks good. No defects noted at this time.

Engine is approved for return to service

New River Aero
Blacksburg, VA 24060
540-951-0080

Jeffrey S. Hoprich
Jeffrey S. Hoprich A&P212562013IA

 310 Hanger Road
Lynchburg, VA 24502
434-237-7002
CRS# BGSR439C

Date: 2/01/2020; Aircraft: N364ES; Type: 172R; S/N: 17280015; Tach: 2069.70; Total Time: 2756.60; Engine - Type: IO-360-L2A, S/N: RL-25219-51E

Shop Order #: F20-0160

ENGINE ENTRY

Complied with Annual / 100-hour inspection IAW Cessna 172R 5-00-00 AMM par. 2 B (1).

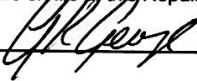
Drained oil and removed filter. No metal found in removed filter. Installed new filter PN: CH48110-1. Serviced with 8 quarts of Phillips XC 20W50 oil. Cleaned and gapped plugs. Engine compressions are #1 72, #2 74, #3 74; #4 74/80. Ran aircraft. No leaks noted.

Oil filler tube loose. Tightened and safetied oil filler tube I/AAW Lycoming IO-360 SSP-1776-4 manual.

Complied with AD 2015-19-07, effective date 11-03-2015 IAW Textron Lycoming Service Bulletin No. 342G and AD 2015-19-07. No defects noted at this time and date. AD is next due in 100 hours. Not to exceed 110 hours.

Maintenance Release

The aircraft or appliance identified above was repaired and inspected in accordance with current Federal Aviation Regulations and is approved for return to service. Pertinent details are on file at this Repair Station

Signed:  CRS# BGSR439C

Page Total: _____

Brought Forward: _____

Total to Date: _____

All repair data must bear the endorsement of a certified mechanic, and his/her rating and certificate number MUST be shown.