

ENGINE LOG BOOK



Engine Log & Maintenance Record

LOG #: _____

RECORD OF _____
(MAKE) (MODEL) (SERIAL)

AIRCRAFT REGISTRATION NUMBER: N177AR

FROM _____ 20____ TO _____ 20____

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

If used on a multi-engine aircraft: ___ Right ___ Left ___ Front ___ Rear

Rebuilt Engine Certificate of Conformance



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-RT9896
Serial Number RL-13562-51E
Engine Model IO-360-A1B6
Work Order KM765650
Total Time 0

Lowell Adams 8/19/2020
Authorized Representative Date

Production Certificate #3

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

Form 2481 Rev 05/13

Engine Log

Serial # _____

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #												
BROUGHT FORWARD																	
 ARLIN'S AIRCRAFT SERVICE, INC. 200 Wings Way, Belgrade, MT 59714 (406)-898-2012 CRS QM5R150N (KBZN)																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DATE</th> <th>REGISTRATION</th> <th>ENGINE</th> <th>SERIAL #</th> <th>TAC</th> <th>SFACOH</th> </tr> </thead> <tbody> <tr> <td>2 NOV 2020</td> <td>N177AR</td> <td>IO-360-A1B6</td> <td>RL-13562-51E</td> <td>6078.2</td> <td>(0)</td> </tr> </tbody> </table>						DATE	REGISTRATION	ENGINE	SERIAL #	TAC	SFACOH	2 NOV 2020	N177AR	IO-360-A1B6	RL-13562-51E	6078.2	(0)
DATE	REGISTRATION	ENGINE	SERIAL #	TAC	SFACOH												
2 NOV 2020	N177AR	IO-360-A1B6	RL-13562-51E	6078.2	(0)												
Inspection completed this date. Checked mag timing. Changed oil (Aeroshell 30W non-det.) and filter. Checked alternator. Checked starter. Installed this engine with new mount rubbers. Flushed oil cooler. Installed new oil lines by Boeing Aircraft, See Certification Sheet. Installed a new starter, P/N 149N2, S/N H-UO10575, See Form 8130-3. Reinstalled the Plane-Power alternator that was installed on 7/12/2014, See Airframe Log. Checked controls. Washed and ran engine. I certify that this engine has been inspected in accordance with a 100HR inspection and was determined to be in an airworthy condition.																	
 Arlin C. Wass A&P 1340061																	
	6088.12	9.92	changed oil & filter. 8 qts Aeroshell 65. Ran. ✓ for Leaks. OK Pilot/owner		2877040												
8/30/20	6109.7	31.5	Changed oil & Filter 8 qts Ran ✓ for Leaks. OK Pilot/owner		2877040												
 ARLIN'S AIRCRAFT SERVICE, INC. 200 Wings Way, Belgrade, MT 59714 (406)-898-2012 CRS QM5R150N (KBZN)																	
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DATE	REGISTRATION	ENGINE	SERIAL #	TAC	SFACOH												
3 NOV 2021	N177AR	IO-360-A1B6	RL-13562-51E	6124.0	50.2												
Inspection completed this date. Checked compression. Cleaned plugs. Checked mag timing. Changed oil and filter. Checked alternator. Checked starter. Pressure checked exhaust system. Ops checked oil temp, cylinder temp and EGT. Installed a new oil pressure transducer, P/N PT-100-GA. Checked fuel lines and clamps to comply with AD 2015-19-07. Checked controls. Washed and ran engine. I certify that this engine has been inspected in accordance with a 100HR inspection and was determined to be in an airworthy condition.																	
 Arlin C. Wass A&P 1340061																	

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.

Engine Log

Serial # _____

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
BROUGHT FORWARD					
5/31/2022	6159	85.2	changed oil & filter. Dpts Aeroshell 15/50. RAN V for leaks. sent oil sample.	<i>[Signature]</i>	2877040
7/31/2022	6201	137.2	changed oil & filter. Dpts Aeroshell 15/50. RAN V for leaks.	<i>[Signature]</i>	2877040

Executive Flight Center, 360 Clyde Shelton Drive, Meridianville AL 35759

Date: 09-04-2022 Logbook: Engine 1 Tail Number: N177RG

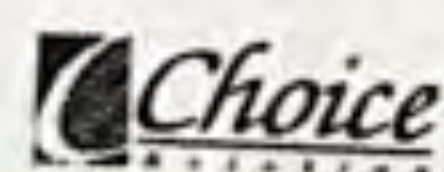
Model: IO-360-A1B6 Serial: RL-13562-51E TTSN: SMOH:

Repairs / Maintenance

- TACH 6223.04
- Cleaned all spark plugs. Check at set gap as needed. Re-installed all spark plugs with M674 gaskets and torqued to 420 in-lbs.

The work described on the above work order was performed accordance with current regulations of the FEDERAL AVIATION ADMINISTRATION. Ray Meyer AP3115846IA *[Signature]*

ENGINE MODEL:
IO-360-A1B6
ENGINE S/N:
RL-13562-51E
REG. NO: N177AR
WORK ORDER: EKS0198



Choice Aviation, LLC

Ennis, MT Shop - EKS
PO Box 1570
Ennis, MT 59729

DATE: 12/8/2022
A/C TSN: 6242.78
ENG TT:
TSMOH: 164.58
TACH: 6242.78

Engine Entries

- Drained oil removed filter and inspected, no metal noted. Installed new filter P/N AA48110-2, and serviced with 8 qts Aeroshell 15/50. C/W compression check Cyl 1 76/80, 2 76/80, 3 78/80, 4 75/80. Cleaned gapped and tested spark plugs, and reinstalled. Checked magneto timing. Pressure checked exhaust. inspected engine controls. I certify that this engine was inspected IAW a annual/100hr inspection per AC43.13 appendix D and was determined airworthy at this time.
- C/W Ad research thru 12/8/2022
- Retorqued R/H magneto P lead
- installed new rivets and secured R/H front baffle seal.
- Stop drilled crack and installed washer and screw on L/H center baffle.
- Replaced dipstick tube Gasket with new and safety wired.
- replaced oil breather hose with new P/N Mill6000-10.
- Removed and cleaned all 4 cylinders fuel injectors per service instruction 1275C. torqued injectors to 60 inch lbs.
- C/W AD 15-19-07 by visual inspection of fuel lines and clamps. No defects noted at this time. next due 11/30/2023 or tach 6342.78
- C/W AD 76-07-12 function test of Bendix ignition switch. No Defects noted at this time. next due 12/31/2023 tach 6342.78

DATE: 12/8/2022

SIGNED: *[Signature]*

Jeremy Westlake, IA: 355892 IA

Work Order: EKS0198

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Page Total: _____

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Total to Date: _____

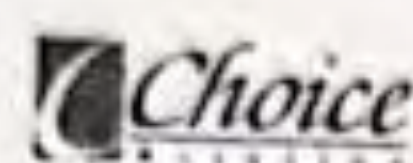
All repair data must bear the endorsement of a certified mechanic, and his/her rating and certificate number MUST be shown.

Engine Log

Serial # _____

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence
BROUGHT FORWARD		6212.3			
6/10/2023	6262.3	184.1	Changed oil & filter, P/N Aeroshell 15/50, RAN 8V fanleaks	<i>[Signature]</i>	287704

ENGINE MODEL:
IO-360-A1B6
ENGINE S/N:
RL-13562-51E
REG. NO: N177AR
WORK ORDER: EKS0250



Choice Aviation, LLC

Ennis, MT Shop - EKS
PO Box 1570
Ennis, MT 59729

DATE: 4/26/2024
A/C TSN: 6301 27
ENG TT: 58 49
TSMOH: 223 07
TACH: 6301 27

Engine Entries

- Drained oil and removed filter, inspected filter no metal noted. Installed new filter P/N CH48110-1 and serviced with 8 qts aeroshell 15/50. C/W compression check, cyl 175, 274, 374, 472/80. cleaned and inspected gascolator. Inspected and pressure checked annual/100hr inspection IAW AC43.13 appendix D and was determined airworthy at this time.
- Cleaned and recharged engine airfilter Assy.
- C/W ad 15-19-07 by visual inspection of fuel injector lines and clamps. No defects noted at this time. Next due Tach 6401.23 or 4/30/2025.

I Certify that this Engine has been inspected in accordance with an Annual Inspection as outlined in FAR 43, Appendix D and was determined to be in Airworthy condition.

DATE: 4/26/2024

SIGNED:

[Signature]
Jeremy Westlake, IA: 3515892 IA

Work Order: EKS0250

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Page Total: _____

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Total to Date: _____

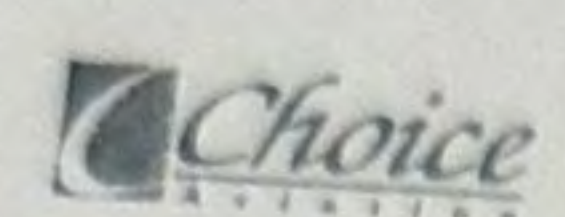
All repair data must bear the endorsement of a certified mechanic, and his/her rating certificate number MUST be shown.

Engine Log

Serial # _____

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	Licence #
BROUGHT FORWARD					
6/10/2023	6262a3	184.1	Changed oil & filter, 8 qts Aeroshell 15/50. RAN 6V fan belts	<i>[Signature]</i>	2877040

ENGINE MODEL:
10-360-A1B6
ENGINE S/N:
RL-13562-51E
REG. NO: N177AR
WORK ORDER: EKS0250

 **Choice Aviation, LLC**
Ennis, MT Shop - EKS
PO Box 1570
Ennis, MT 59729

DATE: 4/26/2024
A/C TSN: 6301.27
ENG TT: 58.49
TSMOH: 223.07
TACH: 6301.27

Engine Entries

- Drained oil and removed filter, inspected filter no metal noted. Installed new filter P/N CH48110-1 and serviced with 8 qts aeroshell 15/50. C/W compression check, cyl 175, 2 74, 3 74, 4 72/80. cleaned and inspected gascolator. Inspected and pressure checked exhaust. Inspected Starter, alternator and magnetos. checked magneto timing. I certify that this engine was inspected IAW a annual/100hr inspection IAW AC43.13 appendix D and was determined airworthy at this time.
- Cleaned and recharged engine airfilter assy.
- C/W ad 15-19-07 by visual inspection of fuel injector lines and clamps. No defects noted at this time. Next due Tach 6401.23 or 4/30/2025.

I certify that this Engine has been inspected in accordance with an Annual Inspection as outlined in FAR 43, Appendix D and was determined to be in Airworthy condition.

DATE: 4/26/2024

SIGNED: *[Signature]*
Jeremy Westlake, IA: 3515892 IA

Work Order: EKS0250

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N177AR	ACTT:6373.04	8/27/2025
Engine SN:LRL-13562-51E	TSMOH: 294.84	

Discrepancy: Aircraft Annual Due. Corrective Action: Inspection completed. Cleaned and checked gap on all spark plugs. Checked timing. Performed compression check. Compression numbers were 1-72, 2-72, 3-75, 4-73. Drained oil and serviced with Philips XC 20W50. Removed, cut open, inspected, and replaced oil filter. Corrected chafing on cyl #2 rocker cover drain line. Checked all AD's through current cycle. I certify this engine has been inspected IAW a 100hr inspection and was found to be in an airworthy condition.

Work Performed By: Josh O'Connor AP3613811IA

[Signature]

Time Total: _____

Time Brought Forward: _____

Time to Date: _____

All repair data must bear the endorse
a certified mechanic, and his/her rat
certificate number MUST be sho



Contact Us:

Mailing Address:

Lycoming Engines
652 Oliver Street
Williamsport, PA 17701

Phone:

U.S. and Canada Toll Free: +1-800-258-3279

International Customers: +1-570-323-6181

Lycoming's regular business hours are Monday through Friday from 8:00AM through 5:00PM Eastern Time (-5 GMT).


Visit us Online: www.lycoming.com

Engine Log

Serial # _____

Date	Time Run (Hours)	Total Time Since Overhaul	Repairs, Adjustments, Service, Remarks	Signature	License #
BROUGHT FORWARD					
6/10/2023	6262.3	187.1	changed oil & filter, oil & Ameshell 15/50, Run to 100hr	<i>[Signature]</i>	2877049

ENGINE MODEL: IO-360-A180
 ENGINE S/N: RL-13562-51E
 REG. NO. N177AR
 WORK ORDER: EKS0250

 Choice Aviation, LLC
 6794 Mt Hope - E39
 PO Box 1172
 Ennis, MT 59728

DATE: 4/26/2024
 A/C TSM: 6301.27
 ENG TT: 58.43
 TSMOH: 233.07
 TACH: 6301.27

Engine Entries

Drained oil and removed filter. Inspected filter no metal noted. Installed new filter PIN CH48110-1 and serviced with 8 qts aeroshell 15/50. CW compression check, Cyl 175, 2-74, 3-74, 4-72/80. cleaned and inspected gascolator. Inspected and pressure checked exhaust. Inspected Starter, alternator and magnets, checked magneto timing. I certify that this engine was inspected IAW a annual/100hr inspection IAW AC43.13 appendix D and was determined airworthy at this time.
 Cleaned and recharged engine arfilter assy
 CW at 15-18-07 by visual inspection of fuel injector lines and clamps. No defects noted at this time. Next due Tach 5401.23 or 4300205

I certify that this Engine has been inspected in accordance with an Annual Inspection as outlined in FAR 43, Appendix D and was determined to be in Airworthy condition.

DATE: 4/26/2024

SIGNED

[Signature]
 Jeremy Wiedelke, A. 387892 IA

Work Order: EKS0250

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N177AR
 Engine SN:LRL-13562-51E

ACTT:6373.04 8/27/2025
 TSMOH: 294.84

Discrepancy: Aircraft Annual Due. Corrective Action: Inspection completed. Cleaned and checked gap on all spark plugs. Checked timing. Performed compression check. Compression numbers were 1-72, 2-72, 3-75, 4-73. Drained oil and serviced with Phillips XC 20W50. Removed, cut open, inspected, and replaced oil filter. Corrected chafing on cyl #2 rocker cover drain line. Checked all AD's through current cycle. I certify this engine has been inspected IAW a 100hr inspection and was found to be in an airworthy condition.

Work Performed By: Josh O'Connor AP3613811IA

[Signature]

Time Total: _____

Brought Forward: _____

Valid to Date: _____

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