

The Standard
ENGINE LOG

ASA-SE-2

12/23/2015

12/23/2015

DATE _____

TSMOH:0

THIS LYCOMING ENGINE MODEL IO-360-A1F6D SN L-18228-36A MAJOR OVERHAULLED THIS DATE IN ACCORDANCE WITH LYCOMING O/H MANUAL PN 60294-7. ENGINE WAS DISASSEMBLED, CLEANED, AND VISUALLY INSPECTED. THE FOLLOWING ITEMS WERE SENT OUT FOR INSPECTION, OVERHAUL, AND CERTIFICATION: CRANKCASE, OIL COOLER, CRANKSHAFT, CONNECTING RODS, CRANK GEAR, CAMSHAFT, LIFTERS, HYDRAULIC UNITS, AND ALL INTERNAL STEEL. CYLINDERS WERE INSPECTED, OVERHAULED, ASSEMBLED, AND CERTIFIED BY J&J AIRPARTS, INC. SEE YELLOW TAGS ON ALL CERTIFIED ITEMS. ENGINE WAS ASSEMBLED WITH ALL NEW MAIN AND ROD BEARINGS, ROD NUTS AND BOLTS, ALL INTERNAL HARDWARE, OIL TEMP CONTROL VALVE, OIL PRESSURE RELIEF SPRING, EXHAUST NUTS, ALL LOCKING TABS AND WASHERS, AND SPARK PLUGS. ENGINE WAS INSTALLED WITH NEW MOUNTS AND IGNITION HARNESS. CARB, STARTER, AND PROP GOVERNOR OVERHAULED AT THIS TIME. ENGINE WAS SERVICED WITH AEROSHELL 100 STRAIGHT MINERAL OIL FOR BREAK IN. ENGINE TEST RUN WITH ALL INDICATIONS GOOD. ALL ENGINE AD'S COMPLIED WITH AT THIS TIME.

.....END.

BRUCE MCWHORTER A&P 562199228
DEVINE ENGINE & AIRFRAME, INC.
800-988-3212

12/23/2015

YEAR:	RECORDING TACH TIME	TODAYS 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.)
DATE				
				DATE <u>5 Feb 09</u> TSMO's Tach 2099.1 CERTIFY THAT THIS AIRCRAFT ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL 100-HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION <u>Russ Pumphrey</u> SL. 352, P. JIMPHREY 1806192 IA
6/18/09	2070.2			OIL CHANGE - NEW OIL FILTER 8 QUARTS OF AERO SHELL 15-50 A. RIVAS - OWNER <u>AR</u>
6-22-10	2115.3			Drained oil Removed filter, Serv'd w/ 8 qts Aero shell 15W50, and <u>Temp</u> 48103 filter Replaced Bracket air filter, C'd magnifying To eng. Concek #1 7/80 #2 7/80 #3 7/80 #4 7/80 (old) C'w all AD's To date checked eng. I certify this eng has been inspected IAW an annual inspection and determined To be in an airworthy condition <u>John Smith</u> 352669468 NPIA

12/23/2015

YEAR: 6/10/11 DATE	RECORDING TACH TIME	TODAYS 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.)
6/10/11	2157.1			CHANGE OIL & FILTER - REPLACED 3 QUARTS PHILLIPS 20W-50.
7-1-11	2157.1			C/W Annual inspection, ckd eng comp
TSMOH	108.0			H1 75/80 H2 75/80 H3 75/80 H4 75/80. Ckd mag timing To eng. Cleaned, ckd gap and rotated plugs. Replaced Replaced Brockheri Filter, Lubed all eng. controls ckd and C/W ALL. AD's To date. I certify this engine has been Inspected IAW An Annual inspection and determined To be in an airworthy condition. J. W. [Signature] 356604068 APZA
2/4/12	2202.1			CHANGE OIL & FILTER - 7 QUARTS PHILLIPS 20W-50 & 1 qt CAM GUARD. RUN UP & LEAK CHECK. A. RIVIN

12/23/2015

YEAR: 2012	RECORDING TACH TIME	TODAYS 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.)
DATE				
06-09-2012	2213.6	100 Hr		Inspection performed for Annual check compressor #1 75/60 #2 75/60 #3 75/60 #4 75/60 check magneto timing to 25° BTDC. Inspect, CLAM rotate spark plugs. Change OIL and OIL Filter. Service with Phillips XC 20W50 5QT and CK 46103-1 Oil Filter. Check engine controls for full travel and free. Engine run up. All system operating normal. Inspection performed in accordance with Lycoming service manual and current FAA Regulations 13500000 Verify that this aircraft has been inspected in accordance with a 100 Hr inspection and was determined to be in airworthy condition. Total Time 2213.6 Date of Insp. 06-09-2012 Mechanic Sign <i>Richard L. Horn</i> IAA # A6E6 2674458

12/23/2015

YEAR:	RECORDING TACH TIME	TODAYS 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.)
DATE				

July 6, 2013 Tach 2262.6

Drained oil and refilled with Philips 20/50 xc. Replaced oil filter with CH48103-1 and saftied. Replaced fuel inlet gaskets with Kelly Aerospace part#s cf16-a48. Compressions 80,74,76,76. Cleaned gapped and re-installed spark plugs. Completed run up and leak check. No discrepancies noted or observed. This engine has been ispected IAW manufacturers checklists and FAR 43. This engine has been inspected IAW an annual/100hr inspectin and was found to be in an airworthy condition at this time. E. Clarke Crawford 526654612 IA

E. Clarke Crawford

N1GX Engine, Lycoming O-360 A1F6D, s/n L-18228-36A, tach: 2309.5, TSMOH: 260.4, 08/26/2014
Completed engine inspection, lubrication and inspection using Cessna C177 service manual pages 2-1 thru-2-24, Lycoming O-360 Operator's Manual section 4, 1-4 and with reference to AC-43-13-1B and 2B as necessary. Compressions tested cold #1 70/80 #2 69/80 #3 70/80 #4 70/80. Checked magnetos timing. The AD list in the aircraft logs were compared with ADs listed at faa.gov including ADs issued in the last 60 days - no new ADs were found. Engine oil and filter was replaced per log entry on 7/13/2014, tach: 2308.2. Engine run up accomplished and engine checked for leaks. I certify this engine has been inspected in accordance with an annual inspection and determined to be in an airworthy condition.

N. Hochberg IA 1694544

Nelson Hochberg

12/23/2015

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tries.)

YEAR:	RECORDING TACH TIME	TODAYS 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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N1GX Engine, Lycoming O-360 A1F6D, s/n L-18228-36A, tach: 2358.3, TT: 2358.3, TSMOH: 309.2, 09/05/2015
Cleaned, gapped plugs. Serviced air filter. Checked mag timing, and engine timing. R&R engine oil and filter.
Engine run up accomplished and engine checked for leaks. James Ivy A&P 2848295 *James A. Ivy*

N1GX Engine, Lycoming O-360 A1F6D, s/n L-18228-36A, tach: 2358.3, TT: 2358.3, TSMOH: 309.2, 09/05/2015
Compressions tested cold #1 74/80 #2 76/80 #3 70/80 #4 74/80. I certify this engine has been inspected in
accordance with an annual inspection using FAR 43, Appendix D as a check list and determined to be in an
airworthy condition. N. Hochberg IA 1694544 *Nelson Hochberg*

N1GX	Tach: 2401.8	Eng TT: 2401.8	AD's checked thru 2016-16
9/1/2016		TSMOH: 352.7	

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

Robert A. Luna *Robert A. Luna* IA3186868

Checked oil and oil filter, checked air filter element, checked fuel screen, checked magneto timing.
Compression test taken: 1) 76/80, 2) 73/80, 3) 77/80, 4) 78/80 inspected spark plugs. Inspected
overall engine condition: intake and exhaust, hoses, lines, fittings, mounts, accessories, engine control cables
and electrical.

All work done I/A/W Lycoming and Cessna service manuals and FAR 43, Appendix "D".

12/23/2015

YEAR:	RECORDING TACH TIME	TODAYS 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.)
DATE				

A/C Make:	Cessna	EL AERO SERVICES, LLC.	Engine Make:	Lycoming
A/C Model:	177B	815 Murray Way	Engine Model:	O-360-A1F6D
Reg. No.:	N1GX	Elko, NV 89801	S/N:	L-18228-36a
S/N:		F.A.A. Certificated Repair Station #9WQR791C	Engine TT:	UNK
Tach:	2390.1		S.M.O.H.:	UNK
A/F TT:	UNK	ENGINE LOGBOOK INSERT	W.O. #:	22765

The aircraft and/or component identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is authorized for return to service. Pertinent details are on file at this agency.

1.) Customer reported engine missing and low on power. Discovered #3 Cylinder Ext. valve stuck open. 2.) Removed #3 cylinder assy, and replaced with overhauled O-360 CYL obtained from Penn Yan Aero, reference their 8130-3 dated 02/JUL/2016, Work Order 43286-16. Removal and Installation IAW Lycoming Overhaul Manual 60294-7Rev. 7-10D. 4.) Drained oil and re-filled with 8 QTS Aero Shell 100 plus mineral oil. 5.) Installed new CH48103-1 oil filter. 6.) Test ran on ground, operation and leak checked good. Nothing follows-----

Inspector

Mark Facer

For repair station of El Aero Services, LLC.

Form EA-13

12/23/2015

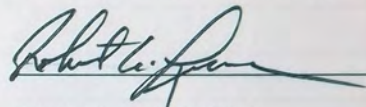
Operations
Number of
entries.)

YEAR: 2017	RECORDING TACH TIME	TODAYS 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.)
DATE				

N1GX Tach: 2455.7 EngTT: 2455.7 A.D.'s checked thru 2017-20

10/07/2017 TSMOH: 406.6

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



Robert A. Luna 3186868 I.A.

Checked oil and filter, Checked air filter element, Checked fuel screens, Compression test taken: 1) 79/80 2) 72/80 3) 79/80 4) 78/80. Inspect and clean spark plugs. Reinstalled overhauled magneto and timed to engine. Inspect overall engine condition: intake, exhaust, hoses, lines, fittings, mounts, accessories, engine controls and electrical.

All work done I/A/W Lycoming and Cessna service manuals and FAR 43 Appx. "D"

10/7/17				Drained oil & removed old oil filter
				Refilled with 8 quarts Aeroshell Multigrade
				and installed new oil filter. Leakcheck good.
				A. RIVAS owner

12/23/2015

YEAR: 2018	RECORDING TACH TIME	TODAYS 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.)
DATE				
7/12	2507.6			Drained oil and replaced with 8 quarts of AERO SHELL MULTIGRADE. REMOVED OIL FILTER AND REPLACED. LEAK CHECK GOOD A. RIVAS - OWNER

2650 W Shamrell Blvd
 Flagstaff Pulliam Airport
 Flagstaff, AZ 86001
 928.779.9585 Phone
 928.779.9586 Fax

N1GX

Tach: 2507.6

Engine

WO_118

July 12, 2018

→ Installed doubler, sealed, and secured flange to induction airbox.
 Rory T. Goforth 2736122 IA

12/23/2015

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.)

2018

DATE _____

7/12

2507.6

Drained oil and replaced with 8 quarts of
AERO SHELL MULTIGRADE. REMOVED OIL FILTER
AND REPLACED. LEAK CHECK GOOD
A. RIVAS - OWNER

A. RIVAS - OWNER



2650 W Shamrell Blvd
Flagstaff Pulliam Airport
Flagstaff, AZ 86001
928.779.9585 Phone
928.779.9586 Fax

N1GX

Tach: 2507.6

Engine

WO 118

July 12, 2018

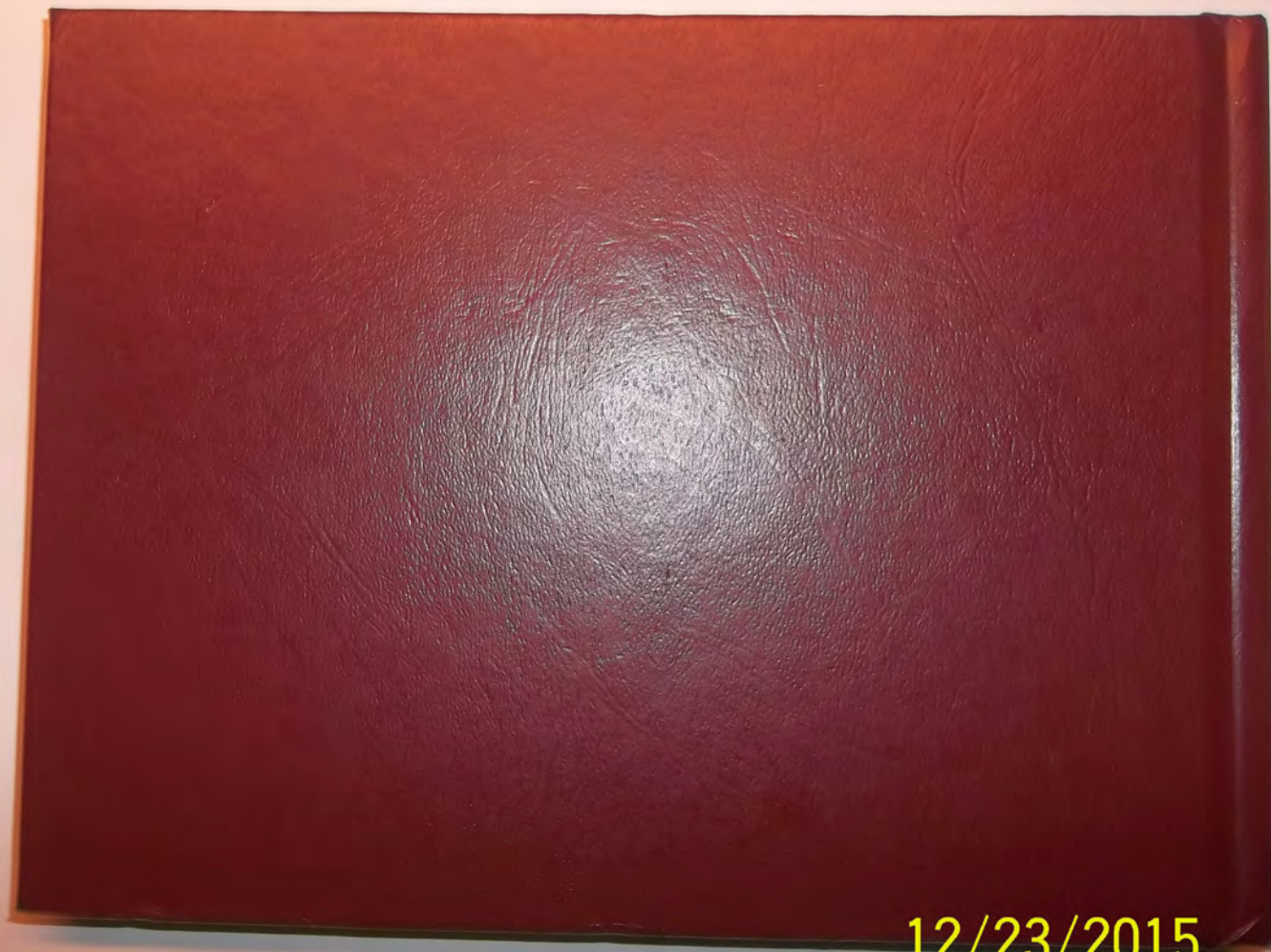
→ Installed doubler, sealed, and secured flange to induction airbox.
Rory T. Goforth 2736122 IA

12/23/2015

YEAR:	RECORDING TACH TIME	TODAYS 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.)
DATE				
				Date: 12-5-2018 Tach: 2550.1 hrs. TTE: 2550.1 hes. TSMOH: 501.0 hrs. Engine Log entry for N1GX 100 Hr. Inspection Inspect and service this Engine as per Cessna Aircraft Co. 177B eries maintenance manual inspection guide. See completed items and corrected discrepancies listed below. - Remove cylinder no. 2 due to burnt valve, Install overhauled cylinder assembly p/n LW12427, s/n J082354 using new piston rings, gaskets and seals. See FAA form 8130-3 by CRS#JUJR300L. W.O.#Jo82354, dated 8-25-2018. Install new exhaust push rod tube shroud p/n LW11485 and exhaust valve push rod p/n 73434. - Remove cylinder no. 4 due to bent exhaust push rod. Install overhauled cylinder assembly p/n LW12427, s/n J140555 using new piston rings, gaskets and seals. See FAA form 8130-3 by CRS#JUJR300L, W.O.# J140555, dated 2-25-2014. Install new exhaust valve push rod tube shroud p/n LW11485 and exhaust valve push rod p/n 15F19957-36. - Replace exhaust valve push rod p/n 73434 and intake valve push rod p/n 73435 on cylinder no. 3. - Dry tappet clearance check as follows: cyl.#1-int. .065 exh. .050. Cyl.#2-int. .057 exh. .072. Cyl.#3-int. .052 exh. .068. Cyl.#4-int. .070 exh. .072. Replace all push rod shroud seals p/n LW18661 and 70310. - Install new oil return line hoses p/n STD1821. - Drain engine oil and oil cooler. Install new CH48103-1 oil filter, torque and safety. Service engine with 8 qts. AS100 mineral. - Remove magneto m/n D4LN-2021, p/n 10-382555-11, s/n E-111268. Send for repair/overhaul. 11-26-2018. Install the above mentioned magneto after O/H. Time and adjust magneto to engine. See FAA form 8130-3 by CRS# RV3R829L, W.O.#30451, dated 11-30-2018.

12/23/2015

YEAR:	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations
DATE				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				Date: 1-8-2021 Engine Log entry for N1GX Tach: 2570.0 hrs. Ground run engine. Drain engine oil and oil cooler. Install new CH48103-1 oil filter, torque and safety. Service engine with 8 qts. Phillips XC20W50 oil. Wash engine. Ground run. Operational test satisfactory, no leaks noted at this time. <i>Tim Dearman</i> Tim Dearman A&P3714464
				Date: 2-3-2021 Engine Log entry for N1GX Tach: 2570.2 hrs. 100 Hr. Inspection TSMOH: 521.1 hrs. Inspect and service this Engine as per Cessna Aircraft Co. 177B series maintenance manual inspection guide. See completed items and corrected discrepancies listed below. 1. Compression test as follows: cyl. #1-74 #2-72 #3-75 #4-72 2. Verify magneto timing. 3. Clean, gap, test and reinstall spark plugs. 4. C/W PowerFlow Exhaust Systems instruction for continued airworthiness. No defects noted at this time. 5. Wash engine. Ground run. No leaks noted at this time. All work was performed as per Cessna Aircraft Co. 177B series maintenance manual D841C6-13 and FAR43. I certify that this Engine has been inspected in accordance with a 100 Hr. Inspection and has been determined to be in Airworthy Condition. <i>Tim Dearman</i> 12/23/2015 Tim Dearman A&P3714464



12/23/2015