

PREMIER AIRCRAFT



ENGINE MAINTENANCE RECORDS

Aircraft Registration: 5163U

Engine Position: _____

Log Book Number: _____

Records Dated From: _____ To: _____

Detailing Total Time From: _____ To: _____ Hours

PREMIER AIRCRAFT

ENGINE MAINTENANCE RECORDS

Engine Manufacturer: Lycoming

Model: O-360-F1A6

Serial No: L-11015-36A

Recommended TBO: 2000 Hours 12 Years

Aircraft Registration No: _____

Date Installed on Aircraft: _____

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

Premier Aircraft, 1000 NW Perimeter Way, Troutdale, Oregon 97060
Phone: (503) 661-4184 Fax: (503) 667-4052

Date	Total Time	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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Premier Aircraft, 1000 NW Perimeter Way, Troutdale, OR 97060-9524 503-661-4184
 Manufacturer Lycoming Total Time 8919.1
 Model O-360-F1A6 TSMO 0.0
 Serial Number L-11015-36A Tach Time 8358.1 ✓

Date 10 May 2019
 WO Number 14543

This engine was overhauled and tested in accordance with Lycoming Manual 60294-7, Revision 14, dated July 2011; and Table of Limits SSP-1776-4, dated 10 Apr 2018. See following list of parts installed.

Accessories

Description	Model Number	Part Number	Serial Number	Condition
Magneto	4371	-	18110575	New.
Magneto	4371	-	18110576	New.
Carburetor	HA-6	10-5253	MS011003	Overhauled by Marvel-Schebler, RS V24R156B, Work Order O110, 23 Apr 2018.
Fuel Pump	-	LW15472	1119L0079	New.
Starter	-	149-24LS	F4L-441517	New.

Service Information

Document	Rev	Dated	Subject	Compliance
SB1-19		06 Feb 2019	Stop Pin	Inspected. Not applicable by serial number.
SB240	W	23 Feb 2012	Replacement parts	Parts were replaced in accordance with this Service Bulletin.
SB518	D	16 Aug 2016	Thermostatic by-pass	Inspected. Not applicable. Part number 53E22144 valve is installed. No further action required by this Service Bulletin.

Airworthiness Directives

Carburetor

AD Note	Amend #	Dated	R	Subject	Compliance
69-24-03	39-881	29 Nov 1969	N	Metering passages	Inspected. Not applicable by carburetor part number.
72-06-05	39-5338	03 Jul 1986	N	Throttle arm	Inspected. Not applicable. Serrated style installed.
77-13-16	39-2942	05 Jul 1977	N	Idle needle retention	Inspected. Not applicable by carburetor part number.
79-08-06	39-3450	25 Apr 1979	N	Power loss @ idle	Inspected. Not applicable by carburetor part number.
94-25-04	39-9088	13 Feb 1995	N	Retention screw	Inspected. Not applicable by carburetor part number.
2012-03-07	39-16948	27 Mar 2012	N	Defective carb body	Inspected in accordance with paragraphs (c) & (f). Carburetor has a die-cast body, no further action is required per paragraph (g).

Engine

59-10-07		01 Jul 1959	N	Cylinder baffle clamps	Inspected. Not applicable. New style cylinder baffle clamps are installed.
66-20-04	39-277	27 Aug 1966	N	Oil filter adapter gasket	Inspected. Not applicable by engine serial number.
75-08-09	39-3013	18 Aug 1977	N	Oil pump drive	Inspected. Not applicable by drive part number.
87-10-06	39-6293	01 Sep 1989	N	Rocker arms	Inspected. Not applicable by rocker arm part numbers.
90-04-06	39-6915	28 May 1991	N	Governor oil line	Inspected. The correct line, supports and fittings are installed.
90-04-06	39-6915	28 May 1991	N	Governor oil line	Inspected. Not applicable. Front mounted governor.
92-12-05	39-8265	10 Jul 1992	N	Piston pin	Inspected. Not applicable by piston pin part number.
95-07-01	39-9183	12 Apr 1995	N	Connecting rod bolts	Inspected. Not applicable by rod bolt manufacturer.
95-26-02	39-9460	24 Jan 1996	N	Detonation	Inspected. Not applicable by aircraft registration number.
96-09-10	39-9586	15 Jul 1996	N	Oil pump gears	Inspected. Gears marked with an N & C are installed.

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Airworthiness Directives

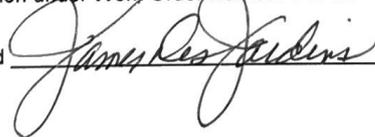
Engine

AD Note	Amend #	Dated	R	Subject	Compliance
97-15-11	39-10085	12 Aug 1997	N	Piston pins	Inspected. Not applicable by piston pin part number.
98-02-08	39-10291	30 Mar 1998	Y	Crankshaft corrosion	Inspected. Not applicable. Constant speed operation.
<u>No further action required by this AD Note.</u>					
98-17-11	39-10713	19 Oct 1998	N	Nelson crankshafts	Inspected in accordance with paragraph (a) (1) & (2). Nelson did not repair this crankshaft.
2004-10-14	39-13644	25 Jun 2004	Y	Crank & gear	Inspected and completed all applicable actions in accordance with paragraphs (c) through (l), inclusive. Torqued new bolt to 204 inch pounds and secured with a new lock tab.
<u>Compliance with this AD is required before further flight if the engine experiences a propeller strike after the effective date of this AD, as defined in paragraphs (i) and (j) of this AD.</u>					
2005-19-11	39-14276	21 Oct 2005	N	Crankshaft failure	Inspected in accordance with paragraphs (c) & (h) - (i). Not applicable by crankshaft serial number.
2006-06-16	39-14525	27 Apr 2006	N	Crankshaft failure	Inspected in accordance with paragraph (c) & (e) - (k). Not applicable by engine model number.
2006-10-21	39-14605	22 Jun 2006	N	ECi connecting rods	Inspected in accordance with paragraphs (c) & (g). Not applicable by connecting rod manufacturer.
2006-12-07	39-14632	11 Jul 2006	N	ECi cylinders	Inspected in accordance with paragraph (c) & (g). Not applicable by cylinder manufacturer.
2007-04-19	39-15005	07 May 2007	N	Superior cylinders	Inspected in accordance with paragraph (c) & (f). Not applicable by cylinder manufacturer.
2009-26-12	39-16151	04 Feb 2010	Y	ECi cylinders	Inspected in accordance with paragraph (g). Not applicable by cylinder manufacturer.
<u>No further action required by this AD Note.</u>					
2012-19-01	39-17196	24 Oct 2012	N	Crankshaft failure	Inspected in accordance with paragraphs (c), (f) & (g). Not applicable by crankshaft serial number.
2015-02-07	39-18074	11 Mar 2015	N	Set screw security	Inspected in accordance with paragraph (c). Not applicable. Not an aerobatic engine. Set screw was installed in accordance with paragraph (e).
2017-16-11	39-18988	15 Aug 2017	N	Connecting rod bushings	Inspected. The connecting rod bushings installed are not affected by date of shipment from Lycoming as specified in Lycoming Service Bulletin SB632, Revision B, dated 04 Aug 2017.

Fuel Pump

64-16-05	765	10 Jul 1964	N	Oil loss	Inspected. Not applicable by fuel pump part number.
93-11-11	39-8584	21 Jun 1993	N	Overhauled pumps	Inspected. Not applicable. Installed a new fuel pump.

The work described in this maintenance record was accomplished on the article(s) identified in this maintenance record in accordance with Title 14, Code of Federal Regulations, Part 43, and in respect to that work the article(s) are approved for return to service. Pertinent details are on file at this Repair Station under Work Order Number 14543.

Date: 10 May 2019 Signed  Inspector for Premier Aircraft RS JZYR537L.

Date	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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List of Parts for Work Order No.: 14543

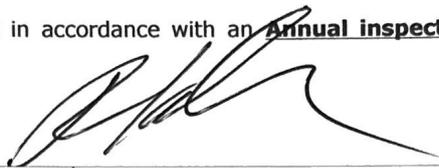
Qty	Part Number / Description	Qty	Part Number / Description
1.0	05K21104 / Cylinder Kit 30080-1 Cylinder, S/N: NSN 14D23912 Piston, S/N: NSN LW14078 Piston Pin, S/N: NSN	4.0	69603 / Intake Hose
1.0	05K21104 / Cylinder Kit 30080-1 Cylinder, S/N: NSN 14D23912 Piston, S/N: NSN LW14078 Piston Pin, S/N: NSN	8.0	71907 / Counterweight Plate
1.0	05K21104 / Cylinder Kit 30080-1 Cylinder, S/N: NSN 14D23912 Piston, S/N: NSN LW14078 Piston Pin, S/N: NSN	2.0	72797 / Counterweight Pin
1.0	05K21104 / Cylinder Kit 30080-1 Cylinder, S/N: NSN 14D23912 Piston, S/N: NSN LW14078 Piston Pin, S/N: NSN	8.0	74637 / Rocker Bushing
1.0	05K21104 / Cylinder Kit 30080-1 Cylinder, S/N: NSN 14D23912 Piston, S/N: NSN LW14078 Piston Pin, S/N: NSN	8.0	75061 / Rod Bolt
1.0	05K21104 / Cylinder Kit 30080-1 Cylinder, S/N: NSN 14D23912 Piston, S/N: NSN LW14078 Piston Pin, S/N: NSN	1.0	75439-1 / Gasket Set
1.0	05K21104 / Cylinder Kit 30080-1 Cylinder, S/N: NSN 14D23912 Piston, S/N: NSN LW14078 Piston Pin, S/N: NSN	4.0	76220 / Thru Bolt
1.0	05K21104 / Cylinder Kit 30080-1 Cylinder, S/N: NSN 14D23912 Piston, S/N: NSN LW14078 Piston Pin, S/N: NSN	8.0	AEL12892 / Teflon Thrust Button
1.0	10-5253 / Carburetor S/N: MS011003	2.0	AEL13884M006 / Front Main Bearing
1.0	1028B / Oil Pressure Ball	8.0	AEL15592-5 / Clamp
1.0	13S19646 / Crankshaft Gear	16.0	AEL38-13 / Cylinder Deck Stud
1.0	149-24LS / Starter S/N: F4L-441517	8.0	AEL50-15 / Cylinder Deck Stud
2.0	14W21696 / Counterweight Pin	2.0	AEL75154 / Thru Bolt Stud
8.0	15B21319 / Pushrod Socket	1.0	AN565B1032H5 / Set Screw
8.0	15B26066 / Hydraulic Lifter	1.0	CH48110-1 / Oil Filter
8.0	15B26262 / Lifter Body	8.0	LW12186 / Rod Nut
8.0	18M26105M06 / Rod Bearing	4.0	LW13790 / Rocker Shaft
1.0	23D26777 / Fuel Pump Plunger	4.0	LW13923 / Rod Bushing
16.0	383B / Nut	8.0	LW14820 / Snap Ring
1.0	4371 / Magneto S/N: 18110576	1.0	LW15472 / Fuel Pump S/N: 1119L0079
1.0	4371 / Magneto S/N: 18110575	7.0	LW16266-10-13 / Clamp
1.0	53E22144 / Thermostatic By Pass Valve S/N: 214658	1.0	LW18843 / Camshaft
1.0	61084 / Oil Pressure Spring	3.0	LW31H0.88 / Bolt
4.0	61247 / Rocker Cover	1.0	M2508 / Ignition Harness
1.0	68760 / Oil Drain Tube	3.0	MS21919WDG27 / Clamp
		8.0	RHM38E / Spark Plug
		4.0	SL11020M06 / Bearing
		24.0	STD1410 / Nut
		18.0	STD1411 / Nut
		4.0	STD1821 / Hose
		4.0	STD1901 / Stud
		6.0	STD2013 / O Ring
		18.0	STD2090 / Nut
		1.0	STD2168 / Nut
		1.0	STD2231 / Snap Ring
		1.0	STD2246 / Crankshaft Gear Bolt
		3.0	STD2249 / Nut

Date	Total Time In Service	Time Since Major Overhaul	Tach or Hobbs Meter Time	Description of work performed including the signature and certificate number of the person/facility performing the work.
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May 20, 2019 **Tach: 8358.1** **Engine Total: 8919.1** **Engine TSOH: 0.0**
Complied with an ANNUAL inspection I/A/W 14 CRF 43 Apdx D. Engine ground run, Static rpm checked. Differential compression check with .040 orifice 1) new 2) new 3) new 4) new over 80 psi. Engine controls lubricated. Oil and filter changed using 8 qts. Aeroshell 100 mineral and CH48109-1 filter.
Engine: Removed and reinstalled engine after overhaul by Premier Aircraft Engines under their WO# 14543 . Performed multiple ground runs and leak and ops checks normal. Existing alternator and vacuum pump reinstalled.
Propeller: Reinstalled propeller after overhaul by American Propeller Service under WO# APS04082.
Exhaust: Replaced Tailpipe with PMA Aerospace Welding P/N A2454000-15. Replaced Muffler with Knisley Welding P/N K156020-1. Reinstalled exhaust manifolds after overhaul by Aerospace Welding under WO#s 184127. 184128 and 184129.
Engine Mount: Removed and reinstalled Engine mount after repair by Aerospace Welding under their WO# 184117. Installed mount with all new hardware. Replaced all engine shock mounts with set P/N J23502-1.
Baffles: Replaced all baffle airseal on cowling and baffles. Replaced RH rear engine baffle AF2455038-2 and LH rear engine baffle P/N AF2455058-1. Primed and painted all engine baffles.
Oil Cooler: Reinstalled oil cooler after overhaul by Pacific Oil Cooler under WO# 130013.
Propeller Governor: Reinstalled propeller governor after overhaul by Wings West Governors under WO# WW24907.
Additional Work Performed: Replaced all engine hoses with Type D. Reinstalled carburetor heat shroud and carburetor air box after weld repair by Creative Metal Works WO# 81217. Replaced manifold pressure hard line at engine baffle. Replaced rear baffle springs. Replaced multiple rivets on carburetor airbox.
Complied with the following AD's: All applicable ADs complied with at engine overhaul. See Premier Aircraft Engines Logbook entry dated May 10 2019

I certify that this Engine has been inspected in accordance with an **Annual inspection** and has been found to be in Airworthy condition at this time.

Rian Keller AP2771007 IA
Northwest Aircraft Maintenance 503-648-3670

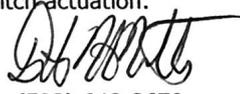


N5163U **July 8, 2019**

Tach: 8367.4

Work Performed: Oil and filter changed using 7 Qts Aeroshell 100 Non-Detergent oil and CH48110-1 filter. Old filter cut and inspected. Engine test run and checked oil filter for leaks. Secured right side engine baffle. Adjusted throttle micro-switch cam for lower manifold pressure setting. Owner to test fly and check actual manifold pressure of switch actuation.

Dirk H Wittig A&P 2686407 IA
Northwest Aircraft Maintenance (503) 648-3670



N5163U

July 8, 2019

Tach: 8382.2

Work Performed: Oil and filter changed using 8 Qts Aeroshell 100 Non-Detergent oil and CH48110-1 filter. Old filter cut and inspected. Engine test run and checked oil filter for leaks.

Rian Keller AP2771007 IA
Northwest Aircraft Maintenance (503) 648-3670



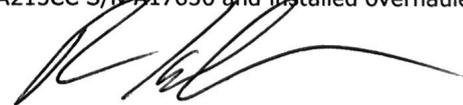
N5163U

April 17, 2020

Tach: 8394.0

Work Performed: Removed vacuum pump Rapco RA215CC S/N A17650 and installed overhauled Rapco 215CC S/N 189921. Ground ran and leak checked.

Rian Keller AP2771007 IA
Northwest Aircraft Maintenance (503) 648-3670



June 3, 2020

Tach: 8395.9

Engine Total: 8956.9

Engine TSOH: 37.8

Complied with an ANNUAL inspection I/A/W 14 CRF 43 Apdx D. Engine ground run, Static rpm checked. Differential compression check with .040 orifice 1) 79/80 2) 79/80 3) 79/80 4) 79/80 over 80 psi. Engine controls lubricated. Oil and filter changed using 8 qts. Phillips 20W50 XC and CH48109-1 filter. Inspected oil suction screen. Inspected fuel gascolator. Drained carburetor. Inspected fuel pump screen.

Oil Cooler: Secured oil cooler fittings.

Work Performed : Secured oil dipstick tube. Replaced intake gaskets #2 and #3. Timed mags and replaced right mag gasket. Slick Mag SB 1-19 does not apply by serial number.

Complied with the following AD's: All applicable ADs complied with.

I certify that this Engine has been inspected in accordance with an Annual inspection and has been found to be in Airworthy condition at this time.

Dirk H Wittig A&P 2686407 IA
Northwest Aircraft Maintenance 503-648-3670

July 23, 2021

Tach: 8447.3

Engine Total: 8447.3

Engine TSOH: 127.0 - EIE

Complied with an ANNUAL inspection I/A/W 14 CRF 43 Apdx D. Engine ground run, Static rpm checked. Differential compression check with .040 orifice 1) 78/80 2) 79/80 3) 78/80 4) 78/80 over 80 psi. Engine controls lubricated. Oil and filter changed using 8 qts. Phillips 20W50 XC and CH48109-1 filter. Inspected oil suction screen. Inspected fuel gascolator. Drained carburetor. Inspected fuel pump screen.

Work Performed : Adjusted oil pressure down. Adjusted idle speed and mixture. Replaced #3 intake gasket. Wipe down minor oil seepage. Replaced engine air filter BA5805. Secured carburetor heat shroud. Installed missing baffle screws.

Complied with the following AD's: All applicable ADs complied with.

I certify that this Engine has been inspected in accordance with an Annual inspection and has been found to be in Airworthy condition at this time.

Rian Keller AP2771007 IA
Northwest Aircraft Maintenance 503-648-3670

May 4th, 2022

Tach: 8451.4

Engine Total: 8451.4

Engine TSOH: 131.1 - EIE

Complied with an ANNUAL inspection I/A/W 14 CRF 43 Apdx D. Engine ground run, Static rpm checked. Differential compression check: 1) 77/80 2) 78/80 3) 76/80 4) 76/80 over 80 psi. Engine controls lubricated. Oil and filter changed using 8 qts. Phillips 20W50 XC and CH48110-1 filter. Inspected oil suction screen. Inspected fuel gascolator. Drained carburetor.

Work Performed : Removed plastic spiral wrap around starter wire and installed firesleeve material. Replaced #2 intake gasket.

Complied with the following AD's: All applicable ADs complied with.

I certify that this Engine has been inspected in accordance with an Annual inspection and has been found to be in Airworthy condition at this time.

John Norling 3046424 AP/IA
Northwest Aircraft Maintenance 503-648-3670

Willamette Aviation Service, LLC

23115 Airport Rd. NE

Aurora, OR 97002

Make: CESSNA
Date: 06/29/23

Model: 172RG
S/N: 172RG0267

Reg. No.: N5163U
Tach Time: 8473.70

Engine Log

Type: Lycoming
Total Time: 9034.7

S/N: M: O-360-F1A6 SN: L-11015-36A
SOH: 115.6

Annual inspection CW IAW 14 CFR Part 43 Appendix D. Cylinder compression check results: #1 76/80, #2 77/80, #3 74/80, #4 76/80, all compressions within limits. Verified magneto timing to be 25° BTDC per engine data plate. Cleaned spark plugs, gapped, inspected, rotated, installed with P/N M-674 per Champion Service Manual V6-R. Drained oil, replaced filter P/N AA48110-2. Inspected old element, no defect found. Serviced with 7qts of Aeroshell W100 and 1 bottle of Lycoming Additive, P/N LW-16702. Solvent washed, lubed controls. I certify this engine was inspected IAW an annual inspection and, was to be determined in an airworthy condition. Dennis Nelson A&P 3533034 IA

