

Left Engine #2 log



The Standard

ENGINE LOG

N8375Y LEFT ENGINE LOGBOOK #3

N8375Y

ASA-SE-2

POPLAR GROVE AIRMOTIVE, INC.
CRS YYBR664L
SUGGESTED BREAK-IN PROCEDURES

After starting the engine, ensure a normal warm up, but avoid prolonged ground running. Follow the airframe manufacturer's recommendations for takeoff power. When possible, reduce power to the climb power setting specified in the operator's manual. Establish a shallow climb angle to insure good air speed for proper cooling. Use more cowl flaps than normal or step climb to help in this process. Adjust mixture per aircraft operating handbook. Excessive heat is the primary cause of cylinder bore glazing. Make every effort to keep your operating temperature well into the green arc.

If the engine is normally aspirated (non-turbocharged) it will be necessary to cruise at a low altitude to obtain the required cruise power levels. We recommend a density altitude less than 5,000 feet to allow the engine to develop sufficient cruise power for a good break-in.

Do not run the engine above 75% power in a cruise setting or the probability of glazing cylinder bores is increased. Glazing cylinder bores required cylinder removal, honing and installing new piston rings. ***Poplar Grove Airmotive does not warranty this condition.*** Your ability to keep the engine temperature well in the green arc and within a power range of 65% to 75% power will be the key to a successful break in.

Descend at low cruise power while closely monitoring the engine instruments. Avoid long descents at low manifold pressure and rapid descents, as this will cause the engine to cool too rapidly.

There is only one object to be accomplished during the break-in: the stabilization of oil consumption. Record all oil additions and flight hours in such a manner that quart per hour of flight is known. During this portion of the break-in, which could range 25 to 100 hours, mineral oil ***must be*** used in the engine. Change oil and inspect filter after approximately 10 hours – then 35 hours – then per your normal schedule, however, do not use AD (ashless dispersant) oil until consumption stabilizes.

Engine Oil Recommendation For Piston Ring Seating

Aero Shell 100	SAE 50	Above 60 degrees F
Aero Shell 80	SAE 40	30 degrees – 90 degrees F
Aero Shell 65	SAE 30	0 degrees – 70 degrees F
Phillips 20W-50	Type M	Winter Months



Phone: 815.544.2300 800.397.8181

LIMITED AIRCRAFT ENGINE WARRANTY

FAX: 815.544.8900

Poplar Grove Airmotive, Inc. (PGA) limits its warranty on the listed engine overhauled by PGA to be free from defects in material and workmanship under normal use and service for a period of one year or twenty percent (20%) of the Manufacturer's Published T.B.O. in effect at the time of overhaul, whichever ever occurs first. All accessories overhauled by PGA are warranted for 240 hours of operation or six months, whichever event shall occur first.

The obligation of the Company under this warranty is limited to the repair or replacement, at the option of PGA, or any part, component or engine, which in the opinion of PGA is defective. The Company assumes no obligation for work accomplished at a facility other than PGA unless prior notification is given and the owner received authority from The Company to proceed. PGA additionally reserves the right to furnish any parts and/or components required. If requested by PGA, owner must return all warranted parts, transportation prepaid, to PGA for examination.

Pro-rata **PARTS WARRANTY** to T.B.O. is subject to a minimum accrual of 40 hours per month from date of delivery. Pro-rata adjustments will not be granted for removal and installation of engines, components or accessories, or for normal routine maintenance, inspections or adjustments. Replacement or repair of an engine, component or accessory will not be construed to extend the initial warranty period.

This warranty shall not apply to engines, their component parts or accessories which have been improperly installed, adjusted, stored, handled, repaired, altered or operated contrary to current manufacturer's recommendations of FAA Airworthiness Directives, or subjected to misuse, neglect, accident, pre-ignition, detonation, hydrostatic lock or corrosion. Pro-rata adjustments on engines, parts or component parts may be granted at the sole discretion of PGA during and up to T.B.O. Adjustments will be based on total pro-rata hours as a ratio to total current list price. The resultant cost per hour will be the basis for crediting unused hours.

PGA does not warrant accessories, such as factory-remanufactured magnetos, carburetors, starters, etc. supplied by a vendor other than PGA when that vendor has its own warranty.

No express warranties and no implied warranties, whether of merchantability or fitness for any particular use, or otherwise (except to title) other than that expressly set forth above, which is made expressly in lieu of all other warranties, shall apply to products sold by PGA.

This warranty and this Company's obligation thereunder is in lieu of all other warranties, expressed or implied, including warranties of merchantability and fitness for a particular purpose, and all other obligations or liabilities, including consequential damages or contingent liabilities arising out of the failure of any engine or part to operate properly, and no person is authorized to give any other warranty or to assume any additional obligation on this Company's behalf unless made in writing and signed by an officer of this company.

Date 6/15/10 Model IO-320-BIA S/N L-3247-55A WO# 3334

Engine Record General Information

Manufacturer LYCOMING Model IO-320-B1A

Serial L-3247-55A Type Certificate _____

This engine is currently installed in aircraft: _____

Minimum Octane Fuel _____ Oil Grade Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at _____ hours

6/15/2010

9:58AM

Poplar Grove Airmotive, Inc.**Shop Orders -- Inventory Summary**

For Shop Order 3334 Only

Notes

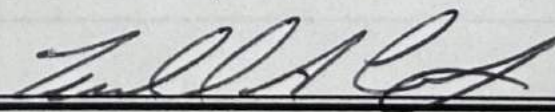
Shop Order #	Close Date	Dsc #	Part Number	Description	Action	Quantity	Units
					Date Wrnty?		
3334	//	2,000	STD2180	Hose	5/25/2010	1.00	Each
3334	//	2,000	AEL69603	Hose	5/25/2010	4.00	Each
3334	//	2,000	STD1221	Ring	5/25/2010	1.00	Each
3334	//	2,000	LW25-0.94	Bolt	5/25/2010	5.00	Each
3334	//	2,000 M	UREM40E	Spark Plugs	5/25/2010	4.00	Each
3334	//	2,000 M	UREM40E	Spark Plugs	5/25/2010	4.00	Each
3334	//	2,000	SL69371-1	Gasket Set	5/26/2010	1.00	Each
3334	//	2,000	15B26064	Lifter (72877)	5/26/2010	8.00	Each
3334	//	2,000	M2364	Ign. Harness	5/26/2010	1.00	Each
3334	//	2,000	SL1028-B	Ball	5/26/2010	1.00	Each
3334	//	2,000	SL13884A	Bearing	5/26/2010	2.00	Each
3334	//	2,000	18D19394	Bearing	5/26/2010	4.00	30.89
3334	//	2,000	STD1211	PLUGS	5/26/2010	1.00	Each
3334	//	2,000	SL-STD2213	Screw	5/26/2010	1.00	Each
3334	//	2,000	AF15473	Fuel Pump	5/26/2010	1.00	Each
3334	//	2,000	AA48110	Oil Filter, Tempest	5/26/2010	1.00	Each
3334	//	2,000	LW13923	Rod Bushing	5/26/2010	4.00	Each
3334	//	2,000	AEL78027	Bolts	5/26/2010	8.00	Each
3334	//	2,000	AEL12186	Rod Nut	5/26/2010	8.00	Each
3334	//	2,000	SL61662A	Bearing	6/04/2010	8.00	Each
3334	//	2,000	SL60398	Bushing	5/26/2010	4.00	Each
3334	//	2,000	AEL74637	Rock Bush	5/26/2010	4.00	Each
3334	//	2,000	AEL13790	Shaft	5/26/2010	4.00	Each
3334	//	2,000	SL12892	Thrust Button	5/26/2010	8.00	Each
3334	//	2,000	05K21100	Cylinder	5/26/2010	4.00	1065.1
3334	//	3,000	149NL	STARTER	5/27/2010	1.00	Each
3334	//	2,000	SL-STD1925	Bolt	5/27/2010	7.00	Each
3334	//	2,000	STD670	Nuts	5/27/2010	8.00	Each
3334	//	2,000	SL383-B	Nut	5/27/2010	6.00	Each
3334	//	2,000	LW25-1.50	Bolt	5/27/2010	2.00	Each
3334	//	2,000	CCA1700	Quick Drain	5/27/2010	1.00	Each
3334	//	2,000	61155RW	Crank Gear	5/27/2010	1.00	Each
3334	//	2,000	15B21319	Socket	5/27/2010	8.00	Each
3334	//	2,000	78030RW	Connecting Rods	5/27/2010	1.00	Each
3334	//	2,000	AEL72970	Gear	5/27/2010	1.00	Each
3334	//	2,000	AEL68987	Tube	5/27/2010	1.00	Each
3334	//	2,000	SL68759	Drain Tube	5/27/2010	1.00	Each
3334	//	2,000	SL68760	Drain Tube	5/27/2010	1.00	Each
3334	//	2,000	SL68761	Tube	5/27/2010	1.00	Each
3334	//	2,000	B508	Clamp	5/27/2010	2.00	Each
3334	//	2,000	IO320B1A	Crankcase	6/14/2010	1.00	Each
3334	//	2,000	MS29512-06	O Ring	6/01/2010	2.00	Each
3334	//	3,000	10-51643	Nut	6/03/2010	1.00	Each
3334	//	3,000	10-51324	Spring	6/04/2010	1.00	Each
3334	//	3,000	10-35936-7	Screw	6/04/2010	4.00	Each
3334	//	3,000	ES10-90751-18	Cotter Pin	6/04/2010	1.00	Each
3334	//	3,000	10-3793	Washer	6/04/2010	1.00	Each
3334	//	3,000	10-682025	Screw	6/04/2010	1.00	Each

MANUFACTURER: Lycoming **ENGINE MODEL:** IO-320-B1A **S/N** L-3247-55A **WO #** 3334

AD #	DESCRIPTION	Compliance Status
64-16-05	oil seal	N/A by P/N
65-03-036R(1)	crankshaft	C/W I/A/W para B
66-20-04	oil filter adapter gasket	N/A by gasket P/N
67-22-06	fuel servo	N/A by servo P/N
73-23-01 R4	piston pin P/N 69650	N/A by pin P/N
75-08-09 R3	oil pump drive shaft with woodruff key	N/A - has drive shaft with flats
75-09-15	fuel flow dividers	N/A by P/N
78-23-10	fuel servo	N/A by P/N
79-04-05	fuel servo	N/A by P/N
87-10-06 R1	rocker arm	N/A-rocker P/NN LW-18790 not installed
90-04-06 R1	external oil line	N/A by no oil line received
92-12-05	piston pin P/N LW14077	N/A by pin P/N
95-26-02	low octane fuel	N/A by aircraft registration number
96-09-10 C	oil pump	P/C/W IAW SB524
96-23-03	fuel pump	N/A by pump P/N
97-15-11	piston pin P/N LW14077	N/A by new pins installed
98-02-08	crankshaft	N/A engine uses a constant speed prop
98-17-11-C	crankshaft	C/W by inspection I/A/W para (b)

Poplar Grove Airmotive, Inc.

FAA Approved Repair Station #YYBR664L



Date: 6/15/2010



Rhineland Flying Service
3400 Airport Road P.O.Box 501
Rhineland, Wi. 54501 715-365-3456

N8375Y Date: 06-25-2010 Tach: 4341.2 Total Time: 4341.2 SMOH: 0.0

Installed this engine after overhaul by Poplar Grove Airmotive. Installed four new mounts with P/N 94011-03. Installed all new hoses. Installed new engine preheater with EZ Heat 441. Serviced with 8 Qts Aeroshell 100 mineral oil. Ground run leak and ops test good.


Paul Hume

Russell S. Seamans IA 2836083

[illegible]

N8375Y Date: 08-06-2010 Tach: 4352.7 Total Time: ----- SMOH: -----

Drained oil. Replaced filter with AA48110. Cut old filter open no defect noted. Serviced with 8 Qts. Aeroshell 100 mineral oil. Ground run leak check good.



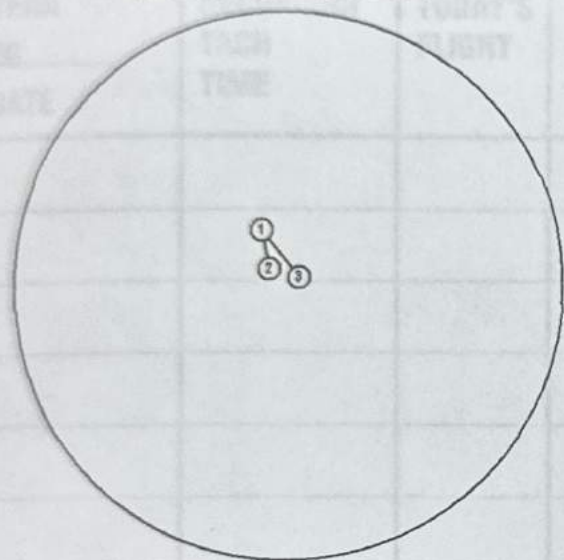
Russell S. Seamans AP 2836083

[illegible]

LYCOMING DYNAMICALLY BALANCED

— POLAR PLOT - 1.0 IN/S FS —

Operator Comments



Piper PA-30 30-1529 4354.7 Hrs
IO-320-B1A

MicroVib II SN:1682 Cal:06/08/2010
Initial: 0.221 IN/S @ 2022.9 RPM Final: 0.058 IN/S @ 2030.8 RPM

Oper: Nicholas P Cotter A&P 3073624
Date: 08/11/2010

Inspections, Tests, Repairs and Alterations

Entries must be entered with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

N8375Y
Model: IO-320

Left Engine Logbook Entry

10-05-2010
4383.30 Hrs Tach.

Changed the oil and filter. Added Aeroshell 15W50. Ground test ran and leak check ok.

I certify that with respect to the work performed this engine was repaired in accordance with the current regulation of the Federal Aviation Administration and is approved for return to service.

Nicholas P Cotter A&P393503876



Rhineland Flying Service
3400 Airport Road P.O.Box 501
Rhineland, Wi. 54501 715-365-3456

N8375Y Date: 4-01-2011 Tach: 4387.6 Total Time: 4387.6 SMOH: 46.4

Left engine

I certify that this engine has been inspected IAW an annual inspection and was determined to be in airworthy condition. Compression: #1 77/80 #2 74/80 #3 76/80 #4 78/80. Drained oil. Replaced filter with AA48110. Cut old filter open no defects noted. Serviced with 8 Qts Aeroshell 15w50 oil. C/W AD 08-14-08 fuel injection lines by inspection next due 4487.6. Ground run leak and ops test good.

Mark Krupka IA 3181718

[illegible]



Rhinelanders Flying Service
3400 Airport Road P.O.Box 501
Rhinelanders, Wi. 54501 715-365-3456

N8375Y Date:9-1-2012 Tach: 4388.0 Total Time: 4388.0 SMOH:46.8

Left engine

I certify that this engine has been inspected IAW an annual inspection and was determined to be in airworthy condition. Compression: #1 77/80 #2 74/80 #3 77/80 #4 73/80. C/W AD 11-26-04 fuel injector lines by inspection next due 4388.0. Ground run leak and ops check good.

Russell S. Seamans LA 2836083

YEAP
20
DA

RECORDING

TODAY'S

TOTAL

Description of Inspections, Tests, Repairs and Alterations




Rhineland Flying Service
3400 Airport Road P.O.Box 501
Rhineland, Wi. 54501 715-365-3456

N8375Y Date:5-27-2014 Tach:4395.2 Total Time: 4395.2 SMOH: 54.0

Left engine

I certify that this engine has been inspected IAW an annual inspection and was determined to be in airworthy condition. Compression: #1 76/80 #2 77/80 #3 75/80 #4 76/80. Drained oil. Replaced filter with 48110. Cut old filter open no defect noted. Serviced with 8 Qts Aeroshell 15w50. C/W AD 11-26-04 fuel injector lines by inspection next due 4495.2 or 5-2015.



Russell S. Seamans IA 2836083

[illegible]



Rhinelanders Flying Service
3400 Airport Road P.O.Box 501
Rhinelanders, Wi. 54501 715-365-3456


N8375Y Date:7-1-2015 Tach: 4402.7 Total Time: 4402.7 SMOH: 61.5

Left engine

I certify that this engine has been inspected IAW an annual inspection and was determined to be in airworthy condition. Compression: #1 75/80 #2 75/80 #3 77/80 #4 76/80. Drained oil. Replaced filter with AA48110. Cut old filter open no defects noted. Serviced with 8 Qts Aeroshell 15w50. C/W AD 11-26-04 fuel injector lines by inspection next due 7/2016 or 4502.7. Ground run leak and ops check good.

Russell S. Seamans IA 2836083

5000.



YEAR

RECORDING

TODAY'S

TOTAL

Description of Inspections, Tests, Repairs and Alterations

**Rhineland Flying Service****3400 Airport Road P.O.Box 501****Rhineland, Wi. 54501 715-365-3456**

N8375Y Date:4-6-2018 Tach: 4403.4 Total Time: 4403.4 SMOH: 62.2

Left engine

I certify that this engine has been inspected IAW an annual inspection and was determined to be in airworthy condition. Compression: #1 75/80 #2 74/80 #3 76/80 #4 74/80. Drained oil.

Replaced filter with CH48110. Cut old filter open no defects noted. Serviced with 8 Qts Aeroshell 15w50. C/W AD 15-19-07 fuel injector lines by inspection, next due 4513.4. Ground run leak and ops check good.

Russell S. Seamans IA 2836083



Rhinelanders Flying Service
3400 Airport Road P.O. Box 501
Rhinelanders, Wi. 54501 715-365-3456

N8375Y Date:6/1/2019 Tach: 4409.3 Total Time: 4409.3 SMOH: 68.1

Left engine

I certify that this engine has been inspected IAW an annual inspection and was determined to be in airworthy condition. Compression #1 76/80 #2 73/80 #3 77/80 #4 76/80. C/W AD 15-19-07 fuel injector lines by inspection, next due at 4519.3. Drained oil. Replaced filter with AA48110-2. Cut old filter open no defect noted. Serviced with 8 Qts Aeroshell 15w50. Ground run leak and ops check good.

Mark Humpal

Mark Krupka IA 3181718

[illegible]

YEAR 2019 DATE	RECORDING TACH TIME	TODAY'S 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.)
8 Sep 19	4455			<p>Drained oil, cleaned oil screen, replaced oil filter, serviced engine with 6 qts Aeroshell 15W50.</p> <p><i>[Signature]</i></p> <p>MARK LUD AP 3138202</p>
				<p>Date: 03/26/2021 Hours: 4515.84 / TSMOH: 174.6</p> <p>Tail#: N8375Y</p> <p>Make: Lycoming Model: IO-320-B1A S/N: L-3247-55A</p> <p>Performed an Annual/100 Hour Inspection in accordance with 14 CFR 43 Appendix D using Lycoming and Piper Twin Comanche Service Manuals as a guide. Cleaned, gaped tested, rotated and reinstalled spark plugs. Checked engine magneto timing and compression. Compression 1-78, 3-72, 2-76, 4-72 Complied with AD15-19-07. See Separate entry for current AD status. Ground ran Aircraft, no leaks detected.</p> <p>I certify that this Engine has been inspected in accordance with Annual inspection and was determined to be in an airworthy condition.</p> <p>Name: Troy Creeks Cert: A&P3674511A</p> <p>Co: Carson Aviation Services Sign: <i>[Signature]</i></p>
				<p>See next page. Date of inspection corrected. Mark Lud AP3138202</p>

YEAR
20
DATE

Date: 05/26/2021 Hours: 4515.84 / TSMOH: 174.6

Tail#: N8375Y

Make: Lycoming

Model: IO-320-B1A

S/N: L-3247-55A

Performed an Annual/100 Hour Inspection In accordance with 14 CFR 43 Appendix D using Lycoming and Piper Twin Comanche Service Manuals as a guide. Cleaned, gaped tested, rotated and reinstalled spark plugs. Checked engine magneto timing and compression. Compression 1-78, 3-72, 2-76, 4-72 Complied with AD15-19-07. See Separate entry for current AD status. Ground ran Aircraft, no leaks detected.

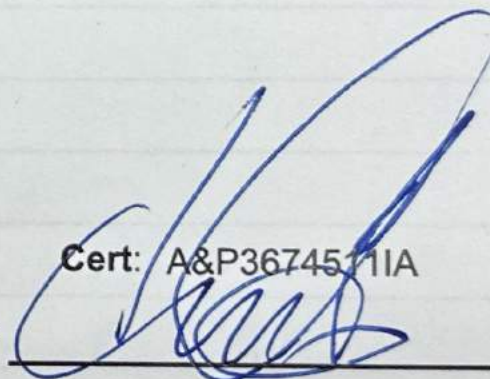
I certify that this Engine has been inspected In accordance with Annual inspection and was determined to be in an airworthy condition.

Name: Troy Creeks

Co: Carson Aviation Services


Cert: A&P3674511A

Sign:



Revisions and Alterations

Certificate Number of
other specific entries.)

5-30-22	LA TAC	Removed & Replaced fuel injectors w GAMI injectors
	4558.0	Per STC# SE09445 SC. Run & Leak check ok
		
		MARK LUND Ap 3138202

MANTENANCE RELEASE TAGS
WORK ORDER 3334



