A TOP RATED SHOP
POPLAR GROVE
AIRMOTIVE INC
1-800-397-8181
poplargroveairmotive.com

The Standard

ENGINE LOG

ASA-SE-2

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 three years or 700 hours, whichever occurs first from the completion date of the overhaul. All accessories overhauled by PGA are warranted for 250 hours of operation or one year, whichever event shall occur first.

Any engine, cylinder or component Repair not associated with a major engine overhaul is warranted to be free from defects in material and workmanship for six months.

The obligation of the Company under this warranty is limited to the repair or replacement, at the option of PGA, of any part, component or engine, which, in the opinion of PGA is defective. PGA assumes no obligation for work accomplished at a facility other than PGA unless prior notification is given and the owner receives authority from PGA 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.

Warranty is not applicable to routine maintenance, inspection 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.

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 PGA'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 PGA's behalf unless made in writing and signed by an officer of PGA.

Date 27/Jun/2018 Model Lyc. 10-360-A1B6D S/N L-16960-51A WO# 9290

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 requires 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.

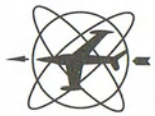
Descend at low cruise power while closely monitoring the engine instruments. Avoid long descents at low manifold pressure and rapid descents, as this will cause the engine to cool too rapidly.

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	All Season
Phillips 20W-50	XC	Nickel Cylinders

Use mineral based AD oils only after break-in – NO synthetics



The Standard

ENGINE LOG

ASA-SE-2

The Standard Engine Log
SE-2

© 1991–2016 Aviation Supplies & Academics, Inc.

ASA-SE-2
ISBN 1-56027-326-7
978-1-56027-326-4

All rights reserved.
Reproduction or use, without express permission,
in any manner, is prohibited.

Published by
Aviation Supplies & Academics, Inc.
7005 132nd Place SE
Newcastle, WA 98059-3153
Website: www.asa2fly.com
Email: asa@asa2fly.com

Printed in the United States of America

02

TRANSPORTATION USD $12.95

ISBN 978-1-56027-326-4

Engine Record General Information

Manufacturer Lycoming **Model** IO-360-A1B6D

Serial L-16960-51A **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**

YEAR 20____ DATE	RECORDING TACH TIME	FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Mechanic, Technician or Repair Facility. (*See* back pages for other specific entries)

MANUFACTURER: Lycoming **ENGINE MODEL:** IO-360-A1B6D **S/N:** L-16960-51A **WO#** 92

AD #	DESCRIPTION	COMPLIANCE STATUS
66-20-04	oil filter adapter gasket	N/A by Engine Model
71-05-02 R4	crankcase	N/A by engine S/N
71-11-02	tappet plunger P/N 76290 and 73065	P/C/W has P/N 78290
73-23-01 R4	piston pin	N/A by pin P/N
75-08-09 R3	oil pump drive shaft with woodruf 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 servo P/N
79-04-05	fuel servo	N/A by servo P/N
90-04-06 R1	external oil line	C/W by inspection I/A/W para. (a) (1)
92-12-05	piston pin P/N LW-14077	N/A by pin P/N
93-14-15	mooney turbo STC SE4757NM	N/A by aircraft model
95-07-01	connecting rod bolt	N/A to new bolts installed
95-26-02	improper fuel	N/A by registration number
96-09-10 C	oil pump	P/C/W IAW SB524
96-23-03	fuel pump	N/A by Manufacturer

Poplar Grove Airmotive
FAA Certified Repair Station YYBR664L **Terry Aavang** Terry Aavang **Date:** 27/Ju

YEAR 20___ DATE	RECORDING TACH TIME

MANUFACTURER: L

AD #	
66-20-04	oil filter a
71-05-02 R4	crankcas
71-11-02	tappet pl
73-23-01 R4	piston pi
75-08-09 R3	oil pump
75-09-15	fuel flow
78-23-10	fuel serv
79-04-05	fuel serv
90-04-06 R1	external
92-12-05	piston pi
93-14-15	mooney
95-07-01	connecti
95-26-02	improp
96-09-10 C	oil pump
96-23-03	fuel pum

Poplar Grove Airmotive
FAA Certified Repair St

6/27/2018
8:53AM

Poplar Grove Airmotive, Inc
Shop Orders -- Inventory Summary
For Shop Order 9290 Only

Shop Order #	Close Date	Dsc #	Part Number	Description	Action Date Wrnty?	Quantity	Units
9290	/ /	2,000	SL12944	Gasket Set	6/06/2018	1.00	Each
9290	/ /	2,000	LW18840	Camshaft	6/06/2018	1.00	Each
9290	/ /	2,000	15B26262	Lifter (Hyperbolic)	6/06/2018	8.00	Each
9290	/ /	2,000	URHM38E	Spark Plugs	6/06/2018	8.00	Each
9290	/ /	2,000	73772	Nozzle	6/06/2018	4.00	Each
9290	/ /	2,000	SL1028-B	Ball	6/06/2018	1.00	Each
9290	/ /	2,000	AEL61084	Oil Spring	6/06/2018	1.00	Each
9290	/ /	2,000	SL13884A	Bearing	6/06/2018	2.00	Each
9290	/ /	2,000	SL11020	Bearing	6/06/2018	4.00	Each
9290	/ /	2,000	SL-STD1211	Plugs	6/06/2018	1.00	EACH
9290	/ /	2,000	SL73810	Bushing	6/06/2018	4.00	Each
9290	/ /	2,000	LW19227RW	Counterweight Set	6/06/2018	1.00	Each
9290	/ /	2,000	AEL72797	Roller	6/06/2018	2.00	Each
9290	/ /	2,000	SL14820 [MS16625-309	Ring	6/06/2018	8.00	Each
9290	/ /	2,000	AN8-14A	Bolt	6/06/2018	1.00	Each
9290	/ /	2,000	06B23072	Gasket - Seal	6/06/2018	1.00	Each
9290	/ /	2,000	05S21021	Spring	6/06/2018	1.00	Each
9290	/ /	2,000	AA48103-2	Oil Filter, Tempest	6/06/2018	1.00	Each
9290	/ /	2,000	AEL13923	Rod Bushing	6/06/2018	4.00	Each
9290	/ /	2,000	SL13212A	Bearing	6/06/2018	4.00	Each
9290	/ /	2,000	AEL12186	Rod Nut	6/06/2018	8.00	Each
9290	/ /	2,000	74494	Caution Sticker	6/06/2018	2.00	Each
9290	/ /	2,000	74494	Caution Sticker	6/06/2018	2.00	Each
9290	/ /	2,000	STD2180 [SL-STD2180	Hose	6/06/2018	4.00	Each
9290	/ /	2,000	68H22624	Mag Bushing	6/06/2018	2.00	Each
9290	/ /	2,000	66M19385	Clamp	6/06/2018	1.00	Each
9290	/ /	2,000	66M19385	Clamp	6/06/2018	1.00	Each
9290	/ /	2,000	AELSTD1930	Hose	6/06/2018	1.00	Each
9290	/ /	2,000	LW10284RW	Crankgear	6/06/2018	1.00	Each
9290	/ /	2,000	AEL76121	Tach Shaft	6/06/2018	1.00	Each
9290	/ /	2,000	STD2231	O-Ring	6/06/2018	1.00	Each
9290	/ /	2,000	55K21022	Spacer	6/06/2018	1.00	Each
9290	/ /	2,000	SL73136	Bracket	6/06/2018	1.00	Each
9290	/ /	2,000	MS21333-75	Clamp	6/06/2018	4.00	Each
9290	/ /	2,000	MS21333-65	Clamp	6/06/2018	6.00	Each
9290	/ /	2,000	STD670 [07-17698]	Nuts	6/06/2018	6.00	Each
9290	/ /	2,000	SL-STD860	Screw	6/06/2018	6.00	Each
9290	/ /	2,000	75165	Clip	6/06/2018	1.00	Each
9290	/ /	2,000	LW31-0.94	Bolt	6/06/2018	1.00	Each
9290	/ /	2,000	STD1925	Screw Superior Product	6/06/2018	3.00	Each
9290	/ /	2,000	LW25-0.94	Bolt	6/06/2018	2.00	Each
9290	/ /	2,000	AEL72702	Drain Tube	6/06/2018	1.00	Each
9290	/ /	2,000	AEL19600	Vernatherm	6/06/2018	1.00	Each
9290	/ /	3,000	AB-382568	Fish Paper	6/12/2018	2.00	Each
9290	/ /	3,000	KA10-400574	Capacitor	6/12/2018	2.00	Each
9290	/ /	3,000	AB-90751-18	Cotter Pin	6/12/2018	1.00	Each
9290	/ /	3,000	AB-382585	Points	6/12/2018	2.00	Each
9290	/ /	3,000	AB-391213	Screw	6/12/2018	1.00	Each

YEAR / MO / 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.)

MANUFACTURER: Lycoming **Engine Model:** IO-360-A1B6D **S/N:** L-16960-51A **WO#:** 9290

AD#	DESCRIPTION	COMPLIANCE STATUS
97-15-11	piston pin	N/A by pin P/N
98-02-08	crankshaft	N/A to engine using controllable pitch prop
98-17-11 C	cranskshaft	Comply with by inspection of crankshaft IAW para (b)
02-12-07	oil filter plate gasket	Comply with by installation of new gasket
03-14-03	prevent rotary fuel pump leaks	N/A to diaphragm type pump installed
04-10-14 C	crankshaft gear	C/W IAW Lycoming SB 475C, next due any prop strike
05-19-11	failure of crankshaft	N/A by crankshaft S/N
06-06-16	crankshaft failure	N/A by crankshaft S/N
09-02-03	Precision fuel servo	P/C/W at overhaul-has "G" stamp on hex plug
12-03-06C	AFS fuel servo diaphram	N/A by lot number of diaphragm assembly
12-19-01	crankshaft failure	N/A by crankshaft S/N
15-02-07	Prop Gov Shaft set screw	N/A by engine model
16-19-07	Fuel lines, due every 110 hrs	C/W by inspection I/A/W SB 342G, dia. #4, next due 2361tt
17-16-11	Rod Bushings	N/A to New AEL 13923 Bushings Installed

Poplar Grove Airmotive Inc.
FAA Certified Repair Station YYBR664L Terry Aavang Ty Aav **Date:** 27/Jun/2018

YEAR 20___ 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.)

MAKE Lycoming **MODEL** IO-360-A1B6D **S/N** L-16960-51A

Total Time 2,251.00 **Hours** **Time Since Major Overhaul** Zero **Hours**

This engine was disassembled, cleaned, inspected and reassembled with necessary new parts in accordance with a major overhaul as per the manufacturer's current overhaul manual 60294-7 A detailed parts list is on file at this agency. The following accessories were overhauled or exchanged. See maintenance releases in this logbook.

Installed camshaft P/N LW-18840 and tappets P/N 15B26262 new from Lycoming. Installed new cylinder kits P/N 05K21120 from Lycoming. Installed magneto P/N 10-382555-11, S/N BA08289701 overhauled by Poplar Grove Airmotive. Installed flow divider P/N 2576564-1, S/N AEG3433 overhauled by Avstar Fuel Systems. Installed fuel pump P/N AF15473 new from Tempest. Supplied servo P/N 2524054-11, S/N 70DK4705 overhauled by Avstar Fuel Systems. Supplied starter P/N 149NL, S/N N-S022755, new from Hartzell Engine Technologies. See A.D. Compliance Record and Parts List for more details. ----------End----------

All applicable airworthiness directives and related factory publications have been checked for compliance at this date. See list in this log book. This engine was test run in an FAA approved test cell and meets specifications. The aircraft engine identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work performed. Pertinent details of repair are on file at this repair station under:

Work Order # 9290 **Date** 27/Jun/2018

Poplar Grove Airmotive, Inc.
Poplar Grove Airport, Poplar Grove, IL
FAA Approved Repair Station #YYBR664L

Terry Aavang
Signed for Poplar Grove Airmotive, Inc.

Aviation Plus LLC
262-656-1260
Aviationplusllc.com

08/10/2018 N52046 Tach 2251 TTE 2251 SMOH 0.00

Changed oil and filter (7qts 20/50 Phillips Type M). Re-installed engine after overhaul by Poplar Grove Airmotive, INC. Engine test run and checked for leaks. CW AD 15-19-07 injector lines and supports, visual, due 100hrs. All routine items checked per inspection sheets. FAR43 App D. I certify that this engine was inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Robert Russell 3411885IA

Aviation Plus LLC
262-656-1260
Aviationplusllc.com

12/08/2018 N52046 Tach 2261.5

Changed oil and filter (7qts Phillips 20W50). Bled right brake.

Robert Russell 3411885IA

PLANE SAFE Aircraft Maintenance, Inc.

Plane Safe Aircraft Maintenance, Inc. · 503 West Bluemound Rd · Waukesha, WI 53188 · 262-547-1800

N52046

Tach: 2292.5 Hobbs: 638.9 **September 5, 201**

1. Completed 100Hr/ Annual Inspection IAW FAR 43 appendix D, using Cessna 177RG inspection forms as a guide.
2. Drained oil. Replaced oil filter with new filter, P/N CH48103-1. Cut open old filter and inspected. No metal fou Serviced engine with 7 qts. Phillips 20W50XC. Performed run up, leak check. No leaks noted.
3. Checked compressions: #1 80/80, #2 80/80, #3 80/80, #4 80/80 PSI.
4. Cleaned, gapped, tested and rotated spark plugs.
5. Checked magneto to engine timing.
6. Performed maintenance run on aircraft. Encountered excessive popping and backfiring during run up. Remov cowling, discovered #4 exhaust riser broke from flange. Removed exhaust system and sent to Power Flow Syste for repair. Installed repaired exhaust using 4 P/N 77611 gaskets. Used Loctite P/N 500997 antiseize on all slip joi for installation per installation instructions. Drilled new holes for EGT probes and installed.
7. C/W AD 15-19-07 by visual inspection of the fuel injector lines and supports. No defects found at this time. Next du 2392.5 or next annual.
8. All AD's checked current through 2019-19.

I certify that this engine has been inspected IAW an Annual inspection, is found to be in an airworthy condition and approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under wo order: PS19184.

William Polachek Airframe & Powerplant A&P2848502 IA William J Polachek

YEAR / 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.)
20 PS20216				

PLANE SAFE Aircraft Maintenance, Inc.

Plane Safe Aircraft Maintenance, Inc. · 503 West Bluemound Rd · Waukesha, WI 53188 · 262-547-1800

N52046
tach: 2342.8 hobbs: 630.0

October 2, 2020

1. Comply with annual inspection IAW FAR 43.13 Appendix D, using the Cessna 177RG Annual checklist as a guide.
2. Checked compressions: #1 80, #2 80, #3 80, #4 80/80.
3. Changed oil and filter. Drained oil and took oil sample with Blackstone sample kit to send out for analysis. Removed filter. Cut open filter and inspected, no contaminants found. Installed new oil filter P/N CH48103-1. Serviced oil tank with 10qts of Phillips 20W50 X/C. Performed leak check, no leaks found at this time.
4. Cleaned, gaped, tested and rotated spark plugs. Checked magneto to engine timing.
5. Cleaned, inspected and lubricated all engine controls.
6. C/W AD 15-19-07 by visual inspection of injector lines and supports, no defects found at this time. Next due: 2442.8 tach or next annual.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS20216.

Druanne Pierce Airframe & Powerplant 3938867921A Druanne M Pierce

YEAR 20____ 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.)

wo: PS21126

PLANE SAFE Aircraft Maintenance, Inc.

Plane Safe Aircraft Maintenance, Inc. · 503 West Bluemound Rd · Waukesha, WI 53188 · 262-547-1800

June 09, 2021

N52046
tach: 2358.1

1. Inspected engine for source of oil leak. Removed upper engine cowl. Discovered oil coming from pushrod tube seal at case side, intake pushrod for #2 cylinder. Removed rocker cover, rocker shaft cover, rocker shaft and rocker. Removed pushrod and pushrod tube. Discovered insert for pushrod tube on engine case was distorted. Removed insert and installed new insert, P/N 07-12895. Cleaned mating surfaces for pushrod tube seals. Reinstalled pushrod tube with new seals, P/N LW18661. Reinstalled pushrod, rocker and rocker shaft. Cleaned mating surfaces for rocker shaft cover and rocker cover. Reinstalled covers with new gaskets, rocker cover, P/N 67193, Rocker cover, P/N 66732. Performed run up, leaks check. No leaks noted.

With respect to the work performed, this engine is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS21126.

William Polachek Airframe & Powerplant A&P2848502 William J Polachek

YEAR OR 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.)

PLANE SAFE Aircraft Maintenance, Inc.

Plane Safe Aircraft Maintenance, Inc. · 503 West Bluemound Rd · Waukesha, WI 53188 · 262-547-1800

N52046 **November 02, 2021**

hobbs: 639.0 tach: 2363.4

1. Comply with Annual Inspection IAW FAR 43.13 Appendix D, using the Cessna 177RG Annual checklist as a guide.
2. Checked compressions: #1 76, #2 78, #3 76, #4 78/80.
3. Changed oil and filter. Drained oil, took sample and sent out for analysis. Removed, cut open, and inspected oil filter. No contaminants found. Installed new oil filter P/N CH48103-1. Serviced engine with 7qts of Phillips 20W50 X/C. Performed leak check, no leaks found at this time.
4. Cleaned, gapped, tested, inspected, and rotated spark plugs. Installed with new M674 gaskets.
5. Cleaned, inspected and lubricated all engine controls.
6. Checked magneto to engine timing, advanced magneto timing 3 degrees to obtain the required 25 degrees BTDC.
7. Adjusted idle stop screw out 1/4 turn to obtain proper idle speed. Performed run-up. All checks are satisfactory.
8. Checked and torqued all rocker cover fasteners.
9. C/W AD 15-19-07 by visual inspection of injector lines and supports. Removed and replaced worn #2 fuel injection line adel clamp with new, P/N: MS21333-75. Next due: 2463.4 tach or next annual. Installed P/N MS21333-75 - Adel Clamp.
10. AD's Checked through Bi-Weekly 2021-23.

I certify that this engine has been inspected IAW an Annual Inspection, is found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS21294.

William Polachek Airframe & Powerplant A&P2848502 IA William J Polachek

YEAR 20___ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alteration** Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (*See* back pages for other specific entries.
2022/9/15				owner: John J Beye 9/15/22
	2360			Changed Spark Plug RHM 38E - 3/4

wo: PS22321

PLANE SAFE Aircraft Maintenance, Inc.

Plane Safe Aircraft Maintenance, Inc. · 503 West Bluemound Rd · Waukesha, WI 53188 · 262-547-1800

N52046 **November 01, 202**

hobbs: 639.0 tach: 2389.0

1. Comply with Annual Inspection IAW FAR 43.13 Appendix D, using the Cessna 177RG Annual checklist as a guide
2. Checked compressions: #1 79, #2 76, #3 79, #4 79/80.
3. Changed oil and filter. Drained oil, took sample and sent out for analysis. Removed, cut open, and inspected oil fi No contaminants found. Installed new oil filter P/N CH48103-1. Serviced engine with 7qts of Phillips 20W50 X Performed leak check, no leaks found at this time.
4. Cleaned, gapped, tested, inspected, and rotated spark plugs. Installed with new M674 gaskets.
5. Cleaned, inspected and lubricated all engine controls.
6. Checked magneto to engine timing.
7. C/W AD 15-19-07 by visual inspection of injector lines and supports. No defects found. Next due: 2589.0 tach 11/2023.
8. Removed leaking #2 valve cover. Cleaned mating surfaces, and installed new gasket, P/N: LW67193. Perform run-up, leak check. No leaks found at this time.
9. All AD's checked current thru 2022-22.

I certify that this engine has been inspected IAW an Annual Inspection, is found to be in an airworthy condition an is approc for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work or PS22321.

Samuel Cryer Airframe & Powerplant A&P95526492 IA Samuel K Cryer

PLANE SAFE Aircraft Maintenance, Inc.

Plane Safe Aircraft Maintenance, Inc. · 503 West Bluemound Rd · Waukesha, WI 53188 · 262-547-1800

N52046 **Lycoming, IO-360-A1B6D, S/N: L-16960-51A** **November 15, 2023**

Hobbs: 679.1 Tach: 2426.3 TTSN: 2426.3 TSMOH: 175.3

1. Comply with Annual Inspection IAW FAR 43.13 Appendix D, using the Cessna 177RG Annual checklist as a guide.
2. Checked compressions: #1: 77/80, #2: 77/80, #3: 78/80, #4: 75/80 (PSI).
3. Drained oil sump and cooler. Took sample and sent out for analysis. Removed, cut open, and inspected oil filter. No contaminants found. Installed new oil filter P/N AA48103-2. Serviced engine with 7qts of Phillips 20W50 X/C. Performed leak check, no leaks found at this time.
4. Checked magneto to engine timing. Found within specs.
5. Cleaned, inspected, gapped, and tested spark plugs. Rotated and installed with new gaskets P/N M674.
6. Cleaned, inspected, and lubricated all engine controls.
7. Found engine oil filler tube loose. Removed and cleaned tube and area. Secured oil filler tube and safetied as required.
8. C/W AD 15-19-07 by inspection of fuel injection lines and clamps. No defects found. Next due 2526.3 Tach.
9. AD's checked through Bi-Weekly 2023-24.

I certify that this engine has been inspected IAW an Annual Inspection, is found to be in an airworthy condition an is approved for return to service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS23267.

William Polachek Airframe & Powerplant A&P2848502 /s/ William Polachek

YEAR 20____ DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	**Description of Inspections, Tests, Repairs and Alteration** Entries must be endorsed with Name, Rating and Certificate Number o Technician or Repair Facility. (*See* back pages for other specific entries

wo: PS24336

PLANE SAFE Aircraft Maintenance, Inc

Plane Safe Aircraft Maintenance, Inc. · 503 West Bluemound Rd · Waukesha, WI 53188 · 262-547-1800

N52046 | **Lycoming, IO-360-A1B6D, S/N: L-16960-51A** | **November 27, 2024**

Hobbs: 720.5 | Tach: 2464.9 | TTSN: 2464.9 | TSMOH: 213.9

1. Comply with Annual Inspection IAW FAR 43.13 Appendix D, using the Cessna 177RG Annual checklist as a guide.
2. Checked compressions: #1: 77/80, #2: 78/80, #3: 77/80, #4: 78/80 (PSI).
3. Drained oil sump and cooler. Took sample and sent out for analysis. Removed, cut open, and inspected oil filter. No contaminants found. Installed new oil filter P/N CH48103-1. Serviced engine with 7qts of Phillips 20W50 X/C. Performed leak check, no leaks found at this time.
4. Checked magneto to engine timing. Found within specs.
5. Cleaned, inspected, gapped, and tested spark plugs. Rotated and installed with new gaskets P/N M674.
6. Cleaned, inspected, and lubricated all engine controls.
7. C/W Power Flow exhaust ICA's by structural inspection and lubrication of slip joints.
8. C/W AD 15-19-07 by inspection of fuel injection lines and clamps. Replaced cylinder #2 pushrod adel clamp with new, P/N: MS21333-75. Next due 2574.9 Tach. Installed P/N MS21333-75 - Adel Clamp.
9. AD's current thru 2024-24.

I certify that this Engine has been inspected IAW an Annual Inspection, is found to be in an Airworthy Condition and is approved for service. Details of work performed are on file with Plane Safe Aircraft Maintenance, Inc. under work order: PS24336.

Samuel Cryer Airframe & Powerplant A&P95526492 _____ IA