

MAKE: Lycoming
Model: O-360-A1A

Serial Number: L-1142-36

Reg. Number: N5585P
Field Service #: WO21-0258



DATE: 09/22/2021

A/C TSN: 5097.81

Tach Time : 2591.81

ENG TT: 5097.81

ENG TSMOH: 2144.81

1) Drained engine oil, took oil sample and removed oil filter. Cut open oil filter and inspected for contamination. None noted at this time. Installed new oil filter P/N: AA48110-2 and serviced engine with 8 Qts of Phillips 20W50XC engine oil. Performed leak check and no leaks noted at this time. **Next Due @ Tach: 2641.77.** 2) Removed, cleaned, gapped, inspected, tested, rotated, and reinstalled spark plugs with new gaskets in reference with Champion Aviation service manual (AV6-R). No defects noted at this time. **Next Due @ Tach: 2791.77.** 3) Performed magneto to engine timing in reference with Lycoming O-360-A1A specifications. Left and right magneto indicated 25 degrees before top dead center. Operational check conducted and is satisfactory at this time. 4) Removed and replaced starter in reference with Lycoming Maintenance Manual and torquer specifications. Old starter P/N off: MZ-6222, S/N off: 9071980. New starter P/N on: 149NL, S/N on: H-V061653. 5) Removed and replaced #2 cylinder exhaust gasket in REF. with Lycoming maintenance Manual and torque specifications. 6) Rerouted starter lead to allow for proper reach to new starter terminal. 7) Installed alternator upper mount bolt in reference with Piper PA-24 Service Manual and torque table.

Jacob M. Pribbernow [Redacted Signature] A&P Pending Date: 09/22/2021

MAKE: Lycoming
Model: O-360-A1A
Serial Number: L-114236
Reg. Number: N5585P
Work Order #: WO20_0070



DATE: 12/02/2020
A/CTSN: 5053.42
Hobbs: N/A
ENG TT: 5053.42
ENG TSMOH: 2100.42

1) Complied with Engine 100 Hr. Inspection in REF. with Piper PA-24-180 Service Manual Inspection Checklist and FAR 43 Appendix (d) as a guide. 2) Complied with Engine AD & SB Research using TDATA by-weekly through 11/19/2020. See Compliance records with Aircraft logs. 3) Drained engine oil and removed oil filter. Cut open oil filter and inspected for contamination, none noted at this time. Installed new oil filter P/N: AA48110-2 and serviced engine with 8 Qts of Phillips 20W50XC engine oil. Performed leak check and no leaks noted at this time. Next Due @ 2597.42. 4) Removed, Cleaned, Inspected, Gapped, Tested and found 7 of the 8 spark plugs were beyond wear limits and out of the Torque only 4 passed resistance test. Installed 7 new plugs as needed in REF. with Champion Aviation Service Manual (AV6-R). and Lycoming O-360-A1A Maintenance Manual torque values. No further action required at this time. 5) Performed cylinder compression checks as required. Master Orifice 43 Psi, #1)66/80, #2)65/80, #3)70/80, #4)65/80. 6) Found generator bracket broken and 3 mounting bolts missing. Removed generator and replaced bracket and bolts as needed and reinstalled generator. Tighten generator bolts and belt as needed in REF. with Lycoming O-360-A1A Service Manual Torque Specifications. No further action required at this time. 7) Installed new Nut and Washer as needed in REF. with Lycoming O-360-A1A Service Manual Torque Specifications. No further action required at this time.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR./ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AT THIS TIME. DETAILS OF WORK PERFORMED ARE ON FILE WITH SOARING AVIATION, LLC. UNDER WORK ORDER WO20_0070.

Kevin L. Haggard

Date: 12/02/2020

DATE 19__	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.)
 AIR PLAINS SERVICES CRS: MNYR085K N <u>5585P</u> WO: 017801 02/24/2020				
<u>Airframe Log Tach</u> Induction air box PN 21617-00 repaired by fabrication and installation of a new shaft and seal assy. Not installed on the aircraft at this time.				
This Part was repaired and inspected in accordance with current regulations of the FAA and is approved for return to service. Signed 				

DATE 19__	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: O-360-A1A
Serial Number: L-1142-36
Reg. Number: N5585P
Field Service #: FST20-0013



DATE: 03/04/2020
A/C TSN: UNK 5034.66
Tach Time : 2528.66
ENG TT: 5034.66
ENG TSMOH: 2081.66

1) Inspected engine and carburetor air box for damage from carburetor fire and found carburetor air box damaged. Removed carburetor air box and sent out to Air Plains Services for repair. Reinstalled carburetor air box after repairs in REF. with Piper PA24-250 Service Manual VII. Performed Engine Runs for Operational Checks. No defects noted at this time.

Kevin L. Haggard

Date: 03/04/2020

MAKE: Lycoming
Model: O-360-A1A
Serial Number: L-1142-36
Reg. Number: N5585P
Field Service #: FST19-0179



DATE: 09/01/2019
A/CTSN: UNK 5034.66
Tach Time: 2528.66
ENG TT: 5034.66
ENG TSMOH: 2081.66

1) Complied with Engine 100 Hr/Annual Inspection in REF. with Piper PA-24-180 Service Manual Inspection Checklist and FAR 43 appendix d as a guide. 2) Complied with AD research through 09/01/2019 using TDATA. See compliance record with Aircraft with Aircraft Logs. 3) Complied with cylinder compression checks as required. Master Orifice: 44 psi #1) 76/80, #2) 76/80, #3) 75/80, #4) 78/80 (HOT Compressions) 4) Removed and replaced LH & RH Exhaust Stacks as needed in REF. with Piper PA24-180 Service Manual Section VII. No Leaks noted at this time. 5) Removed Prop governor and sent to Redline Aviation for Inspection, Overhaul and Re-sealing. Reinstalled Prop. governor as needed in REF. with Piper PA24-180 Service Manual Section VII. Ops checked good at this time. 6) Removed and replaced oil temp probe as needed. Ops checked good at this time.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR/ANNUAL INSPECTION AND ALL OPERATIONAL AND LEAK CHECKS HAVE BEEN COMPLETED AND THIS ENGINE HAS BEEN DETERMINED TO BE IN AN AIRWORTHY CONDITION AT THIS TIME.

Kevin L. Haggard

Date: 09/01/2019

DATE 19__	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.)
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MAKE: Lycoming
Model: O-360-A1A
Serial Number: L-1142-36
Reg. Number: N5585P
Field Service #: FST19-0154



DATE: 07/27/2019
A/C TSN: UNK
Tach Time : 2525.88

ENG TT: UNK
ENG TSMOH: UNK

1) Drained Engine oil and removed oil filter. Cut open oil filter and inspected for contamination, noted small amounts of non ferrous flakes in oil filter. Recommend doing an oil filter inspection after 25 hours. Installed customer supplied oil filter P/N: AA48110-2 and serviced engine with 8 Qts. of Phillips 20W50XC engine oil. Ran engine and inspected for oil leaks, none noted at this time. 2) Took oil sample and sent out for Analysis.

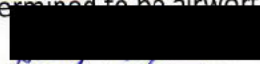
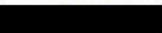
Kevin L. Haggard [Redacted Signature] Date: 07/27/2019

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Manual
Overhaul
checked

I CERTIFY
CHECKS H

Kevin L. H

Date: August 14, 2018, Engine Total Time: 4980.35, Tach Time: 2474.35 Time SMOH: 2027.35
Performed inspection and maintenance in accordance with Piper Comanche Service manual Section III, Lycoming overhaul manual, Lycoming operator's manual O-360 Series section 4, and the scope and detail of FAR 43 appendix D. Compression Checked as follows; #1 78/80, #2 74/80, #3 78/80, #4 76/80
Removed LH Magneto Bendix S4LN-21 P/N 10-51360-30 S/N 1035907 and installed factory rebuilt Bendix magneto P/N BL-500514-1 S4LSC-21 S/N D18EA009R. (See 8130 dated May, 21 2018.) Removed RH Bendix Magneto S4RN-21 P/N 10-51360-6 S/N 213803 and installed factory rebuilt bendix Magneto P/N BL-600644-1 S4LSC-204 S/N E18AA185R. (See 8130 dated March 27, 2018.) Timed magnetos to 25 degrees BTDC. Spark plugs cleaned, inspected, gaped, tested and rotated on installation with new gaskets. Installed new element in bracket air filter P/N (BA-7303.) Drained engine oil and replenished with 7 quarts of Phillips 20W50. Oil filter was removed, opened and inspected. No contaminants noted. Installed new Tempest AA48110-2 filter. Exhaust system removed and inspected and pressure tested, satisfactory. AD 2017-16-11 is NOT applicable to this engine IAW SB#632B. Engine operational check was satisfactory and no leaks were noted. I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be airworthy.


George Lapaseotes


☐ **HUB & BLADE INSPECTIONS, REPAIRS AND ALTERATIONS**

Year:	Total Time in Service	Description
DATE: 09/01/2019	MAKE: Hartzell	
A/C TSN: 5034.66	Model: HC-92ZK-8D/8447A-12A	
Tach Time: 2528.66	Serial Number: 308-L	
PROP TT: 5135.46	Reg. Number: N5585P	
TSPOH: 1751.36	Invoice #: FST19-0179	
1) Complied with Propeller 100 Hr/Annual Inspection in REF. with Piper PA-24-180 Service Manual Inspection Checklist and FAR 43 appendix d as a guide. 2) Complied with AD research through 09/01/2019 using TDATA. See compliance record with Aircraft with Aircraft Logs. I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR/ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION AT THIS TIME. Kevin L. Haggard _____ Date: 09/01/2019		
Next Inspection Due:	Time Since Overhaul	Mech. Cert. # or Repair Station #

Year:	Total Time in Service
MAKE: Hartzell	
Model: HC-92ZK	
Serial Number: 308-L	
Reg. Number: N5585P	
Work Order #: W020_0076	
1) Complied with Propeller (d) as a guide. 2) Complied Aircraft logs. I CERTIFY THIS PROPELLER AIRWORTHY CONDITION A ORDER: W020_0076. Kevin L. Haggard _____	

HUB & BLADE INSPECTIONS, REPAIRS AND ALTERATIONS ☐

Year:	Total Time in Service	Description
	MAKE: Hartzell Model: HC-92ZK-8D/8447A-12A Serial Number: 308-L Reg. Number: N5585P Work Order #: WO20_0070	 1) Complied with Propeller 100 Hour Inspection in REF with Piper PA-24-180 Service Manual Inspection Checklist and FAR 43 Appendix (d) as a guide. 2) Complied with Propeller AD & SB Research using TDATA by-weekly through 11/19/2020. See Compliance records with Aircraft logs. I CERTIFY THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HR./ANNUAL INSPECTION WAS DETERMINED TO BE IN AIRWORTHY CONDITION AT THIS TIME. DETAILS OF WORK PERFORMED ARE ON FILE WITH SOARING AVIATION, LLC. UNDER WORK ORDER: WO20_0070. Kevin L. Haggard [REDACTED] Date: 12/02/2020 Mech. Cert. # or Repair Station # _____

DATE: 12/02/2020
A/C TSN: 5053.42
Tach Time: 2547.42
PROP TT: 5154.22
TSPOH: 1770.12

DATE: 09/01/2019
A/C TSN: 5034.66
Tach Time: 2528.66
PROP TT: 5135.46
TSPOH: 1751.36

Manual Inspection Checklist and FAR 43
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