Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work
				Balance Forward

This is to certify that the engine described hereafter has been overhauled by Penn Yan Aero to new parts tolerances and limits as specified by the manufacturer. Engine disassembled, cleaned, inspected, repaired, reassembled, and tested in accordance with data approved by and or acceptable to the FAA. All applicable Airworthiness Directives are in compliance. See A.D. list supplied.

This engine has been dynamic balanced in accordance with FAA Approved Process Specification AMP-4302.

Installed new Lycoming P/N: 05K21104 cylinder kits at this time.

Authorized Signature

Our WO#	Dated
57861-22	3/21/2023
Engine Model	**Serial Number**
O-360-A4M	L-24049-36A

This engine has been overhauled to Zero Time Tolerances by Penn Yan Aero

Previous Time in Service
5116.2

Penn Yan Aero
2499 Bath Road, Penn Yan, New York 14527
Telephone: 1-315-536-2333
www.pennyanaero.com
FAA Approved Repair Station: Y2GR396Y

Totals – Carry Forward

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Date	Total Time In Service	Total Time Since Overhaul	Tach or Recording Meter Time	Description of Work Performed Certificate Number & Signature of Technician Performing Work
				Balance Forward

The accessories listed are either new or were overhauled (as indicated) and supplied with this engine:

Engine Model		
O-360-A4M		
Serial Number	**Our WO#**	**Invoice Date**
L-24049-36A	57861-22	3/21/2023

Authorized Signature

PENN YAN AERO

Penn Yan Aero

2499 Bath Road, Penn Yan, New York 14527

Telephone: 1-315-536-2333

www.pennyanaero.com

FAA Approved Repair Station: Y2GR396Y

Right Magneto - Part# 4370 (New)	Right Magneto - SN# 22110377
Left Magneto - Part# 4371 (New)	Left Magneto - SN# 22110484
Injector/Carb - Part# 10-5193	Injector/Carb - SN# 75028804
Fuel Pump - Part# LW-15472	Fuel Pump - SN# 11GT11
Starter - Part# Not supplied	Starter - SN# N/A
Turbo - Part# N/A	Turbo - SN# N/A
Controller - 1 - Part# N/A	Controller - 1 - SN# N/A
Controller - 2 - Part# N/A	Controller - 2 - SN# N/A
Wastegate - Part# N/A	Wastegate - SN# N/A

Totals – Carry Forward

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PENN YAN AERO

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543
Make: PIPER
Date: 06/15/23
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M
Total Time: 5116.2

Reg. No.: N9269Q
Tach Time: 10205.00
S/N: L-24049-36A
SOH: 0

Completed the following items:

- Patched various cracks in baffling.
- Replaced working rivets in upper exhaust shroud.

Thomas Kratosky AP 4657480

- Replaced terminal end on alternator power wire.

Ryan L. Eberhart AP3679868

- Installed Engine Model Lycoming O-360-A4M S/N: L-24049-36A overhauled by Penn Yan Aero W/O: 57861-22 dated 3/21/2023 onto N9269Q, PA-28-181, S/N: 2843031.
- Installed with new engine mounts and hardware.
- Installed all accessories /wiring harness.
- Installed new oil and fuel hoses.
- Installed new oil cooler P/N: 8000075, S/N: 13396.
- Installed overhauled carburetor model: MA-4-5, P/N: 10-5193, S/N: 75028804.
- Installed vacuum pump P/N: 215CC, S/N: 196181
- Installed propeller and tracked propeller blades.
- Serviced with 8 qts. Phillips Type M Mineral Oil.
- Replaced worn throttle cable rod end with new P/N: 452-606
- Removed engine driven air conditioning compressor, mounting bracket, and hoses. Updated Weight and Balance.

Airworthiness Directives (AD's): Checked through Biweekly 2023-12.

- Complied with by engine shop.

I certify that this Engine has been inspected in accordance with a 100 hr Inspection and has been determined to be in an airworthy condition.

Date: 6/15/2023 Ryan D. Potts AP 3990767

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543
Make: PIPER
Date: 06/27/23
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 219.00
S/N: L-24049-36A

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 Type M oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.
- Aircraft is approved for return to service for work performed.

Ryan D. Potts AP 3990767

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543
Make: PIPER
Order No.: 89892
S/N: L-24049-36A
Type: 0360A4M AS

Model: ArcherIII

Tach Time: 233.4

Reg. No.: N9269Q
Completed: 07/06/23
Total time: ~~15307.8~~ 5144.6 AS

- ~~15307.~~Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted. Performed engine run, leak check okay.

Allen J. Silks AP4406471

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543
Make: PIPER
Date: 07/25/23
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 10276.90
S/N: L-24049-36A

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element- no significant debris noted

Michael Reginella AP3696864

Date																	

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543
Make: PIPER
Date: 08/02/23
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M
Total Time: 5203.9

Reg. No.: N9269Q
Tach Time: 10292.70
S/N: L-24049-36A
SOH: 87.7

Completed the following items:

- Compression test: #1- 70/80, #2- 74/80, #3- 73/80, #4- 69/80.
- Replaced leaking oil cooler bypass plug gasket with new p/n 06E19769-0.63 gasket. Leak check okay.
- Enrichened mixture adjustment screw to bring idle mixture rise to spec. Adjusted idle speed adjustment screw to increase idle speed to spec. Engine ran smoothly and operated normally.

Allen J. Silks AP4406471

- Cleaned, inspected, gaped, tested and rotated spark plugs.
- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.
- Removed and inspected finger screen, no debris noted. Replaced gasket with new p/n AN900-16 gasket. Leak check okay.
- Corrected left and right mag timing to 25 degrees before top dead center of cylinder #1 compression stroke. Ops check okay, proper mag drop, engine ran smoothly. No leaks.
- Cleaned and inspected carburetor inlet screen, no debris noted. Leak check okay.
- Removed, cleaned, and reinstalled drain plug with tightseal. Leak check okay.

Airworthiness Directives (AD's): Checked through Biweekly 2023-16

- None Applicable at this time.

I certify that this **Engine** has been inspected in accordance with a **100 hour** Inspection and has been determined to be in an airworthy condition.

Date: August 2nd, 2023 Signed: Cert. No. AP3129806
Robert G. Zimmerman

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543
Make: PIPER
Date: 08/24/23
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 10340.80
S/N: L-24049-36A

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.
- Aircraft is approved for return to service for work performed.

Ryan D. Potts AP 3990767

FORWARD AERO AIRCRAFT SERVICES

Forward Aero,LLC
1 Earhart Dr. Coatesville, PA 19320 Hangar 3 || 6054 Lincoln Hwy. W. Thomasville, PA 17364
(717) 435-1007

9/13/2023 N9269Q Lycoming O-360-A4M **S/N:** L-24049-36A
Hobbs: 7138.6 **Tach:** 10385.6 **TSMOH:** 180.6

Totals – Carry Forward

Tach or Recording Meter Time

Total Time Since Overhaul

Total Time In Service

Date

1. Completed 100-hour inspection in accordance with CFR 43.13, appendix "d."
2. Researched AD's through 2023-19.
3. Compressions: #1/73, #2/78, #3/79, #4/79
4. Drained engine oil and cut and inspected oil filter. No metal found. Serviced with 7qts Phillips XC 20w-50 and AA48110-2 filter.
5. Cleaned, gapped, tested, rotated, and installed spark plugs with new gaskets.
6. Removed and replaced all exhaust manifold gaskets.
7. Removed and replaced R/H magneto gasket.
8. Lubricated engine rod ends and checked travel.
9. Performed post-inspection engine performance run and leak check.

I certify this engine has been inspected in accordance with a 100-hour inspection and has been determined to be in an airworthy condition.

Signature:
Trevor Hause AP 4241634

Aero-Tech Services, Inc. ***500-P Airport Road*** ***Lititz, PA 17543***

Make: PIPER
Date: 09/16/23
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 10389.10
S/N: L-24049-36A

- Replaced lower spark plug in cylinder no. 3 with new spark plug p/n UREM38E.
- Completed engine ground run-up, no defects noted.

ATS Date: September 16, 2023 Singed _____ cert no. AP3129806

Robert G. Zimmerman

Aero-Tech Services, Inc. ***500-P Airport Road*** ***Lititz, PA 17543***

Make: PIPER
Date: 10/03/23
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 10442.30
S/N: L-24049-36A

ATS Aero-Tech Services

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.

_____ Allen J. Silks AP4406471

FORWARD AERO AIRCRAFT SERVICES

Forward Aero,LLC
1 Earhart Dr. Coatesville, PA 19320 Hangar 3 || 6054 Lincoln Hwy. W. Thomasville, PA 17364
(717) 435-1007

10/17/2023 N9269Q Lycoming O-360-A4M **S/N** L-24049-36A
ACTT 10477.7 **TSMOH** 272.7

1. C/W 100 Hour Inspection I.A.W CFR 43.13 Appendix D.
2. Compressions #1/ 78 #2/ 76 #3/ 78 #4/ 77
3. Lubed engine controls and rod ends.
4. Inspected exhaust and induction system.
5. Drained engine oil. Removed, cut and inspected oil filter. No debris found. Installed new AA48110-2 oil filter and serviced with 7 Qts of Phillips X/C 20w50.
6. Cleaned, gapped, inspected and re-installed spark plugs with new UM674 gaskets.
7. Removed and replaced cylinder #1 bottom spark plug with new Champion REM40E.
8. Timed magnetos to engine.
9. Researched AD's through biweekly 2023-22.
10. Ran up and performed ops check and leak check.

I certify this Engine has been inspected in accordance with an 100 Hour Inspection and has been determined to be in an Airworthy Condition.

Signature: _____
Aaron Oyler AP/IA 3736413

Aero-Tech Services, Inc. *500-P Airport Road* *Lititz, PA 17543*

Make: PIPER
Date: 11/10/23
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 10529.70
S/N: L-24049-36A

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element- no significant debris noted.

ATS

_____ Michael Reginella AP3696864

Aero-Tech Services, Inc. ⌗ 500-P Airport Road ⌗ Lititz, PA 17543

Make: PIPER
Date: 11/29/23
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M
Total Time: 5477.6

Reg. No.: N9269Q
Tach Time: 10,566.4
L-24049-36A S/N: ~~L-42320-36A~~
SOH: 361.4

- Compression test: #1- 74/80, #2- 72/80, #3- 72/80, #4- 70/80.
- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.
- Cleaned and gapped spark plugs

Allen J. Silks AP4406471

- Tightened all oil return hoses
- Cleaned all primer nozzles.
- Completed engine run up and leak check. No defects noted.

I certify that this Engine has been inspected in accordance with an Annual/100-hour Inspection and has been determined to be in an airworthy condition.

Date: 11/29/2023 Signed: Cert. No. AP3696864IA

Michael G Reginella

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543

Make: PIPER
Date: 12/21/2023
Order No.: 99281

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 10621.8
S/N: L-24049-36A

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted. Performed engine run, leak check okay.

Allen J. Silks AP4406471

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543

Make: PIPER
Date: 01/24/24
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M
Total Time: 5569.5

Reg. No.: N9269Q
Tach Time: 10658.30
S/N: L-24049-36A
SOH: 453.3

Completed the following items

- Compression test: #1- 70/80 #2- 72/80 #3- 75/80 #4- 70/80;
- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.
- Cleaned and gapped spark plugs
- Check engine-to-magneto timing.
- Cleaned and inspected carburetor fuel inlet screen.

Thomas Kratosky AP4657480

- Replaced compression fitting on cylinder no. 4 primer line at primer nozzle.
- Replaced gasket on cylinder #4 intake port.
- Removed #2 primer line, reposition compression fitting and reinstalled. Leak check good.
- Tightened primer line clamp for cylinders 2 and 4 primer lines.
- Replaced torn alternator cooling duct with new scat-6 duct.
- Tightened hose clamps on all four intake tubes
- Completed engine run up and leak check. No defects noted.

Airworthiness Directives (AD's): Checked through Biweekly 2024-01

- None due at this time

I certify that this Engine has been inspected in accordance with a 100-hour Inspection and has been determined to be in an airworthy condition.

Date: ~~11/29/2023~~ 1/24/24 Signed: Cert. No. AP 3129806

~~Robert~~ G. Zimmerman

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543
Make: PIPER
Date: 03/04/24
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 10709.00
S/N: L-24049-36A

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted
- Aircraft is approved for return to service for work performed.

Ryan L. Eberhart AP3679868

ENGINE MODEL: O-360-A4M
ENGINE S/N: L-24049-36A
REG. NO: N9269Q
WORK ORDER: 24063

LANCASTER AERO

Lancaster Aero, LLC.
311 Airport Drive
Box 331
Smoketown, PA 17576
Phone: 717-394-5805

DATE: 4/4/2024
A/C TSN: 10749.8
ENG TT: 5661
TSMOH: 544.8
TACH: 10749.8

Engine Entries

- Changed air filter element, cleaned and gapped spark plugs.
- Compression test: #1 77/80 #2 75/80 #3 78/80 #4 77/80
- Changed oil and filter. Cut old filter open and inspected for contamination. No discrepancies noted.

Serviced with Philips 20W-50.

- Replaced intake gasket on cylinder #2, P/N 71973
- Complied with 500 hr magneto inspection on left and right magnetos. No discrepancies noted.

Installed mags and set engine to magneto timing.

- Completed ground run, no discrepancies noted.

I certify that this engine has been inspected in accordance with an Annual Inspection and has been determined to be in Airworthy condition.

DATE: 4/4/2024 SIGNED: Jared E. Martin, IA 2717559 Work Order: 24063

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Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543
Make: PIPER
Date: 05/03/24
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 794.70
S/N: L-24049-36A

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element- no significant debris noted.

Michael Reginella AP3696864

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543
Make: PIPER
Date: 05/31/24
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M
Total Time: 5764.90

Reg. No.: N9269Q
Tach Time: 10853.70
S/N: L-24049-36A
SOH: 648.7

Completed the following items

- 1: 75/80 2: 79/80 3:79/80 4:79/80; Changed oil and filter.
- Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.
- Replaced engine air filter P/N: BA-3
- Replaced all four cylinder intake gaskets P/N: 71973.
- Replaced zip ties on cyl. #4 and wiring harness to prevent further chafing
- Replaced all four Cyl. exhaust gaskets P/N: 77611.
- Adjusted primer line grommet for proper fitment, re-torqued oil sump bolt.
- Cleaned and inspected carburetor fuel inlet screen.

Thomas Kratosky AP4657480

- Removed RH magneto, disassembled and inspected internal components. Adjusted internal timing. Tested on bench. ; Removed LH magneto, disassembled, inspected and adjusted internal timing. Installed both magnetos with new gaskets to engine, timed 25 degrees BTDC
- Cleaned, gapped, and tested sparkplugs.

Ryan Potts AP3990767

- Adjusted Carb. heat valve rigging. OPs check good.
- Re-set data plate rivets.
- Completed engine run up and leak check. No defects noted.

Airworthiness Directives (AD's): Checked through Biweekly 2024-10

- None due at this time

I certify that this **Engine** has been inspected in accordance with a **100-hour** Inspection and has been determined to be in an airworthy condition.

Date: 5/31/2024 Signed: Ryan L. Eberhart Cert. No. AP3679868

Aero-Tech Services, Inc. ***500-P Airport Road*** ***Lititz, PA 17543***

Make: PIPER
Date: 07/02/24
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 10906.80
S/N: L-24049-36A

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.

Date: July 2, 2024 Signed _____ Cert. No. AP3129606

Robert G. Zimmerman

FORWARD AERO, LLC
6054 Lincoln Hwy. W., Thomasville, PA 17364
(717) 435-1007

FORWARD AERO
AIRCRAFT SERVICES

07/19/2024 N9269Q Lycoming O-360-A4M **S/N** L-24049-36A
ACTT 10942.3 **ETT** 5853.5 **TSMOH** 737.3

1. Performed 100 Hour Inspection I.A.W. FAR 43 Appendix D.
2. Engine compressions: 1- 80, 2- 79, 3- 80, 4- 80.
3. Drained oil. Removed, cut, inspected filter, no defects noted. Installed new filter P/N: AA48110-2. Serviced oil with 7 quarts Phillips X/C 20W-50.
4. Adjusted magneto timing to spec.
5. Installed 8 new spark plugs P/N: REM40E.
6. Removed cylinder #1 and #3 drainback tubes and hoses. Installed new drainback hoses P/N: SL-STD-1821. Reinstalled drainback tubes.
7. Checked torque and re-safetied left hand carburetor airbox bolts.
8. Researched AD's through bi-weekly 2024-14, none due at this time.
9. Ran up aircraft. OPS check and leak check OK.

I certify this engine has been inspected in accordance with a 100 Hour Inspection and has been determined to be in an airworthy condition.

Signature: _____
Trevor Hause A&P/IA 4241634

Aero-Tech Services, Inc. ***500-P Airport Road*** ***Lititz, PA 17543***
Make: PIPER ***Model: Archer III*** ***Reg. No.: N9269Q***
Order No.: 110585 Completed: 08/07/24
S/N: 28-43031 Tach Time: 67.30

Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected oil filter element - no significant debris noted. Performed engine run-up, no leaks.

_____ Allen J. Silks AP4406471

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543
Make: PIPER Model: ArcherIII Reg. No.: N9269Q
Date: 08/24/24 S/N: 28-43031 Tach Time: 111.00
Engine Log Type: O360A4M S/N: L-24049-36A

- RH Mag drop. Removed spark plugs, cleaned, gapped and reinstalled. Mag drop good.

_____ Ryan D. Potts AP 3990767

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543

Make: PIPER
Date: 08/28/24
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M
Total Time: 5953.7

Reg. No.: N9269Q
Tach Time: 116.20
S/N: L-24049-36A
SOH: 837.5

Completed the following items

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element- no significant debris noted. Cleaned and inspected oil sump screen, no significant debris noted.
- Removed and inspected finger screen. No discrepancies found.
- Cleaned, gapped, rotated and inspected spark plugs.
- Cleaned and inspected carburetor fuel inlet screen.

_____ Allen J. Silks AP4406471

- Compressions: #1: 79/80, #2: 79/80, #3: 79/80, #4: 76/80.
- Replaced #3 ignition lead spring.
- Replaced #3 intake gasket P/N: 71973.
- Cyl #1 cracked at intake port. Replaced with serviceable cylinder P/N: LW-12397, S/N: JTI72587, TIS 166.9.
- Replaced #4 cylinder intake gasket P/N: 71973.
- Installed standoff to prevent primer flexible hose from rubbing on electrical wiring harness.
- Rerouted carb. heat control cable to prevent chaffing on engine mount.
- Fabricated new tailpipe hanger. Installed new tailpipe clamp bushing P/N: 82732-103
- Tightened all oil return line hose clamps.
- Torqued all rocker box covers.
- Replaced airbox duct P/N: 457-699.
- Adjusted mixture rise.

Airworthiness Directives (AD's): Checked through Biweekly 2024-17

- None due at this time

I certify that this Engine has been inspected in accordance with a 100-hour Inspection and has been determined to be in an airworthy condition.

Date: August 28th, 2024 Signed _____ Cert. No. AP3679868

Ryan L. Eberhart

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543

Make: PIPER
Date: 09/12/24
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 158.70
S/N: L-24049-36A

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.

_____ Ryan D. Potts AP 3990767

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543

Make: PIPER
Date: 09/23/24
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M

Reg. No.: N9269Q
Tach Time: 190.1
S/N: L-24049-36A

- Removed alternator and alternator support bracket for starter replacement.
- Replaced inop 24 volt Sky-Tec starter m/n 149NL/EC, s/n H-T111003 and replaced with used serviceable 24 volt Sky-Tec starter m/n 149NL/EC, s/n H-R1Z1678. Performed ops check, no defects noted.
- Reinstalled alternator and alternator support brackets. Performed engine run-up, ops check okay.

_____ Allen J. Silks AP4406471

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543

Make: PIPER
Date: 10/2/24
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M
Total Time: 6031.6

Reg. No.: N9269Q
Tach Time: 194.1
S/N: L-24049-36A
SOH: 915.4

Completed the Following Items:

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element- no significant debris noted. Cleaned and inspected oil sump screen, no significant debris noted.
- Removed and inspected finger screen. No discrepancies found.
- Cleaned, gapped, rotated and inspected spark plugs.
- Cleaned and inspected carburetor fuel inlet screen.
- Replaced leaking rocker cover gasket on Cyl #1 with P/N 75906.
- Cyl #1 and Cyl #4 oil return line leaking – cleaned and tightened.
- Replaced Cyl #2 leaking intake gasket with P/N 71973.
- Replaced Cyl #4 leaking intake gasket with P/N 71973.

Mitchell Gordon AP4972692

- Compression test: #1- 78/80, #2- 79/80, #3- 79/80, #4- 79/80.
- Replaced Cyl #3 leaking intake gasket with new P/N: 71973.
- Applied spiral wrap to LH LWR ignition leads near oil cooler to prevent chaffing.
- Replaced cyl #1 leaking exhaust gasket with new P/N: 77611.
- Fabricated new exhaust tailpipe hanger bracket
- Verified torque on engine shock mount bolts- applied torque stripe.

Airworthiness Directives (AD's): Checked through Biweekly 2024-19

- None due at this time

I certify that this Engine has been inspected in accordance with a 100 hour Inspection and has been determined to be in an airworthy condition.

Date: 10/2/2024 Signed: *Ryan D. Potts* Cert. No. AP3990767

1024 (10-17-2024)

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE MODEL: O360A4M

Aero-Tech Services, INC.
500-P Airport Road
Lititz, PA 17543

W/O #: 1024
DATE: 10-17-2024
A/C Tach: 242.7
Hobbs: 8083.9

Entries

- Removed cowling, drained oil, removed oil filter, replaced oil filter with new filter (P/N: AA48110-2), serviced engine with 7 quarts of Phillips 20W-50 engine oil, reinstalled top cowling, run up aircraft, leak check good.

Aircraft is approved for return to service for work performed.

DATE: 10-17-2024 SIGNED:

Robert Shaulis
A&P: 4953147

WORK ORDER: 1024

01054 (11-01-2024)

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE MODEL: O-360-A4M

Aero-Tech Services, INC.
500 Airport Road
Lititz, PA 17543

W/O #: 01046
DATE: 11-01-2024
A/C Tach: 282.2
ENG TT: 6119.7
ENG SOH: 1003.5
Hobbs: 8131.9

Engine Entries

- Compression test: #1- 78/80, #2- 77/80, #3- 78/80, #4- 76/80.
- Replaced leaking intake gaskets for cylinder #2 and #4 with new p/n SL71973 gaskets.

_____ Allen J. Silks AP4406471

- Replaced #3 Bottom spark plug with serviceable P/N: UREM40E. Rotated to Top #2.
- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.
- Cleaned gapped and rotated spark plugs.

_____ Thomas Kratosky AP4657480

- Tightened alternator belt.
- Replaced leaking exhaust gasket on cylinder #1 with new gasket p/n 77611.
- Replaced leaking intake gaskets for cylinder #2 and #4 with new p/n SL71973 gaskets.
- Installed baffle seal chafe protection on cyl #2 intake pipe to protect pipe from chaffing on scat duct.
- Removed Left magneto. Opened and inspected internally. Adjusted e-gap timing to spec. No other defects noted. Reassembled magneto and reinstalled on engine using new gasket p/n LW-12681. Set mag. timing-to-engine.
- Removed Right magneto. Opened and inspected internally. Replaced worn rotor gear with new rotor p/n M3827. Adjusted e-gap timing to spec. Reassembled magneto and reinstalled on engine using new gasket p/n LW-12681. Set magneto-to-engine timing.
- Completed engine ground run-up and leak check, no defects noted.

Airworthiness Directives (AD's): Checked through Biweekly 2024-21

- None due at this time.

I certify that this **ENGINE** has been inspected in accordance with a **100 hour** Inspection and has been determined to be in an airworthy condition.

DATE: 11-01-2024 SIGNED: _____ WORK ORDER: 01054
Robert G. Zimmerman
AP3129806

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543
Make: PIPER | Model: ArcherIII | Reg. No.: N9269Q
Date: 11-22-24 | S/N: 28-43031 | Tach Time: 325.4
Engine Log | Type: O360A4M | S/N: L-24049-36A

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.;
- Aircraft is approved for return to service for work performed.

_____ Thomas Kratosky AP 4657480

Next Page

1088 (12-24-2024) Page 1/1

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE MODEL: O-360-A4M

Aero-Tech Services, INC.
500 Airport Road
Lititz, PA 17543

W/O # 1088
DATE: 12-24-2024
A/C Tach: 375.1
ENG TT: 6212.6
ENG SOH: 1096.4
Hobbs: 8247.4

Engine Entries

- Compression test: #1- 79/80, #2- 78/80, #3- 79/80, #4- 77/80.
- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.
- Cleaned gapped and rotated spark plugs.
- Removed oil sump finger screen, inspected, cleaned, and reinstalled.
- Removed carburetor inlet screen, inspected, cleaned and reinstalled.

_____ **Braydon Wise AP 4997881**

- Verified torque on RH magneto, cleaned area - verify no leaks at runup.
- Replaced Cyl. #3 intake gasket P/N: 71973.
- Tightened Cyl. #3 oil return line clamps.
- Completed engine ground run-up and leak check, no defects noted.

Airworthiness Directives (AD's): Checked through Biweekly 2024-24

- AD 2024-21-02 Connecting rods, Not applicable due to installation of new p/n SL13923A connecting rod bushing during engine overhaul date of 03/2023, no further action required. Refer to Penn Yan Aero work order #57861-22 for more details.

I certify that this **Engine** has been inspected in accordance with a **100 hour** Inspection and has been determined to be in an airworthy condition.

DATE: 12-24-2024 SIGNED: _____ WORK ORDER: 1088

Thomas Kratosky
AP4657480

1121 (01-30-2025) Page 1 / 1

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE MODEL: O360A4M

Aero-Tech Services, INC.
500-P Airport Road
Lititz, PA 17543

W/O #: 1121
DATE: 01-30-2025
A/C Tach: 434.8
Hobbs: 8320.8

Entries

- Changed oil and filter. Serviced engine with 7 qts Phillips X/C 20W50 and filter p/n AA48110-2. Inspected oil filter element - no significant debris noted.

Aircraft is approved for return to service for work performed.

DATE: 01-30-2025 SIGNED: _____ WORK ORDER: 1121

Allen Silks
A&P: 4406471

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1121 (02-24-2025)

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE M/N: O-360-A4M
ENGINE S/N: L-24049-36A

Aero-Tech Services, Inc.
500 Airport Road
Lititz, PA 17543

W/O #: 1121
DATE: 02-24-2025
A/C Tach: 463.7
Hobbs: 8355.3
ENG TT: 6301.2
ENG SOH: 1185.0

Engine Entries

- Compression test: #1- 76/80, #2- 79/80, #3- 79/80, #4- 79/80.
- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted. Cleaned oil sump screen and reinstalled with new p/n AN900-16 gasket.
- Cleaned, gapped, and rotated all spark plugs.

_____ Robert Shaulis AP4953147

- Completed engine ground run-up and leak check, no defects noted.

_____ Allen J. Silks AP4406471

Airworthiness Directives (AD's): Checked through Biweekly 2025-04

- None due at this time.

I certify that this **ENGINE** has been inspected in accordance with a **100 hour** Inspection and has been determined to be in an airworthy condition.

DATE: 02-24-2025 SIGNED: _____ WORK ORDER: 1121

Robert G. Zimmerman AP3129806

1121 (02-27-2025)

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE MODEL: O360A4M

Aero-Tech Services, INC.
500-P Airport Road
Lititz, PA 17543

W/O #: 1121
DATE: 02-27-2025
A/C Tach: 468.0
Hobbs: 8360.9

Entries

- Found Hole in #1 cylinder head melted through CHT probe hole. Replaced Cylinder #1 with new Superior Millennium cylinder kit P/N SL36006W-A20P which includes replacement piston, piston rings, gaskets, rocker shaft, and rocker cover. Found Cylinder #1 spark plugs with aluminum spray on top of electrode. Replaced old Top and Bottom cylinder #1 plugs with new P/N UREM 40E plugs. Preformed engine run up ops check - ops check OK.

Aircraft is approved for return to service for work performed.

DATE: 02-27-2025 SIGNED: Mitchell Gordon
Mitchell Gordon
A&P: 4972692

WORK ORDER: 1121
Printed by EBIS (EBISCloud.com)

1162 (03-26-2025)

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE MODEL: O360A4M

Aero-Tech Services, INC.
500-P Airport Road
Lititz, PA 17543

W/O #: 1162
DATE: 03-26-2025
A/C Tach: 463.7
ENG TSN: 1185.0
ENG TT: 6301.2
Hobbs: 8355.3

Entries

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.

Aircraft is approved for return to service for work performed.

DATE: 03-26-2025 SIGNED:
Robert Shaulis
A&P: 4953147

WORK ORDER: 1162
Printed by EBIS (EBISCloud.com)

Aero-Tech Services, Inc. 500-P Airport Road Lititz, PA 17543

Make: PIPER
Date: 4/23/25
Engine Log

Model: ArcherIII
S/N: 28-43031
Type: O360A4M
Total Time: 6400.3

Reg. No.: N9269Q
Tach Time: 562.5
S/N: L-24049-36A
SOH: 1284.1

Completed the Following Items:

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element- no significant debris noted. Cleaned and inspected oil sump screen, no significant debris noted.
- Removed and inspected finger screen. No discrepancies found.
- Cleaned, gapped, rotated and inspected spark plugs.
- Cleaned and inspected carburetor fuel inlet screen.
- Compression test: #1- 79/80, #2- 79/80, #3- 79/80, #4- 79/80.
- Cyl #1 bottom base nut oily. Verified torque on cylinder #1 leaking bottom base nut.
- Cyl #1 intake gasket leaking, replaced with new.
- Removed RH magneto due to leaking gasket. Installed new gasket P/N: 12681 and magneto, timed to engine.

Robert Shaulis AP4953147

- Cly #2, #4 oil return lines loose clamps causing wet return lines, tightened clamps and cleaned off return lines
- Cyl #1, #2 exhaust gaskets showed signs of leaking, replaced exhaust gaskets for all Cyl.

Mitchell Gordon AP4972692

Airworthiness Directives (AD's): Checked through Biweekly 2025-08

- None due at this time

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

Date: 4/23/2025 Signed: Robert G. Zimmerman Cert. No. AP3129806 IA

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE MODEL: O-360-A4M

Aero-Tech Services, INC.
500 Airport Road
Lititz, PA 17543

W/O # 1198
DATE: 05-19-2025
A/C Tach: 608.2
Hobbs: 8532.4

Engine Entries

- Changed oil and filter. Serviced engine with 7 quarts Phillips XC20W50 and filter P/N: AA48110-2. Inspected filter element - no significant defects noted.

Aircraft is approved for return to service for the work performed.

DATE: 05-19-2025 SIGNED:
Thomas Kratosky
AP4657480

WORK ORDER: 1198

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE MODEL: O-360-A4M

Aero-Tech Services, INC.
500 Airport Road
Lititz, PA 17543

W/O # 1198
DATE: 07-09-2025
A/C Tach: 666.5
ENG TT: 6504.0
ENG SOH: 1387.8
Hobbs: 8601.2

Engine Entries

- Changed oil and filter. Serviced engine with 7 qts Phillips X/C 20W50 and filter p/n AA48110-2. Inspected oil filter element - no significant debris noted. Cleaned, and inspected oil sump screen, no significant debris noted.
- Replaced leaking LH magneto gaskets with new P/N: LW-12681 and SL62224 gaskets. Timed magneto to 25 deg. BTDC Cyl. #1 comp. stroke.
- Drained carburetor bowl – no defects noted.
- Removed, inspected, and cleaned carburetor inlet screen – no defects noted.
- Replaced all four cylinders intake gaskets with new P/N: SL71973 gaskets.
- Tightened leaking cylinder #2 oil return line hose.
- Performed dye penetrant inspection on suspected crack on cylinder #4 cylinder around intake flange, determined no crack present.
- Completed engine ground run-up and leak check, no defects noted.

Allen J. Silks AP4406471

- Replaced five worn spark plugs with new (P/N: UREM40E).
- Cleaned gapped and rotated spark plugs.

Robert Shaulis AP4953147

- Compressions: Cyl. #1: 80/80, Cyl. #2: 79/80, Cyl. #3. 80/80, Cyl. #4: 78/80.
- Replaced leaking RH magneto gasket with new P/N: LW-12681. Timed magneto to 25 deg. BTDC Cyl. #1 comp. stroke.
- Verified LH top and RH LWR engine shock mount torques and applied torque seal.
- Torqued Cyl. #1 rocker box screws to spec.
- Retorqued Cyl. #1-cylinder base nuts to spec.
- Secured engine data plate rivets.

Airworthiness Directives (AD's): Checked through Biweekly 2025-13

- None due at this time.

I certify that this Engine has been inspected in accordance with a **100-hour** Inspection and has been determined to be in an airworthy condition.

DATE: 7-9-2025 SIGNED:
Thomas Kratosky AP4657480

WORK ORDER: 1198

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE MODEL: O360A4M

Aero-Tech Services, INC.
500-P Airport Road
Lititz, PA 17543

W/O #: 1264
DATE: 08-12-2025
A/C Tach: 707.9
Hobbs: 8652.5

Entries

- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted.

Aircraft is approved for return to service for work performed.

DATE: 08-12-2025 SIGNED:
Mitchell Gordon
A&P: 4972692

WORK ORDER: 1264

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE MODEL: O360A4M

Aero-Tech Services, INC.
500-P Airport Road
Lititz, PA 17543

W/O #: 1264
DATE: 08-14-2025
A/C Tach: 708.9
Hobbs: 8653.9

Entries

- L/H magneto drop high and engine running rough during run up. Removed four fouled bottom spark plugs, cleaned and checked gap. Reinstalled plugs. Run op ops check good.

Aircraft is approved for return to service for work performed.

DATE: 08-14-2025

SIGNED:

Robert Shaulis
A&P: 4953147

WORK ORDER: 1264

1395 (09-01-2026)

MAKE: Piper
MODEL: PA-28-181
S/N: 28-43031
REG. NO: N9269Q
ENGINE MAKE: LYCOMING
ENGINE M/N: O-360-A4M

Aero-Tech Services, Inc.
500 Airport Road
Lititz, PA 17543

ENGINE S/N: L-24049-36A

W/O #: 1395
DATE: 09-01-2026
A/C Tach: 760.2
Hobbs: 8704.4
ENG TT: 6597.7
ENG SOH: 1481.5

Engine Entries

- Verified cylinder #2 base nut torques are within spec. in reference to Lycoming service table of limits and torque value recommendations SSP-1776-5-PT1.
- Tightened loose engine data plate rivets.
- Retorqued all rocker box screws to spec in reference to Lycoming service table of limits and torque value recommendations SSP-1776-5-PT1.
- Replaced all four exhaust gaskets with new p/n 77611 gaskets. Pressurized exhaust system, verified no leaks.
- Luke Arnold **Luke Arnold AP4480662**
- Compression test: #1- 79/80, #2- 78/80, #3- 78/80, #4- 78/80.
- Changed oil and filter. Serviced engine with 7 qts Phillips XC20W50 oil and filter p/n AA48110-2. Inspected filter element - no significant debris noted. Cleaned oil sump screen and reinstalled with new p/n AN900-16 gasket.
- Cleaned, gapped, and rotated all spark plugs.
- Removed cylinder #1 fuel injector port plug, reapplied thread sealant, and retorqued to spec.
- Replaced all four intake gaskets with new p/n SL71973 gaskets. Replaced intake flange attachment bolts with new p/n LW-25-1.25 bolts. Pressurized fuel system, verified no leaks.
- Completed engine ground run-up and leak check, no defects noted.

Airworthiness Directives (AD's): Checked through Biweekly 2026-17

- None due at this time.

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

DATE: 9-01-2026 SIGNED: WORK ORDER: 1395

Allen J. Silks AP4406471IA