

Date: 08/02/2021 Hours: 1477.2

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Replaced oil filter with new CH48108-1 and safety. Removed, cleaned, inspected, and reinstalled suction oil screen and safety. Serviced engine with 8 quarts of AeroShell W100. Replaced all spark plugs with new Tempest UREM40E. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. Replaced air filter. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 08/23/2021 Hours: 1585.6

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Replaced oil filter with new CH48108-1 and safety. Removed, cleaned, inspected, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Compression check completed: 78/80, 75/80, 70/80, 74/80. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. Replaced air filter. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 08/31/2021 Hours: 1594.2

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Replaced #2 cylinder with new ECI Cylinder. Performed run up and operational check. No new faults found. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 09/02/2021 Hours: 1602.5

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Replaced oil filter with new CH48108-1 and safety. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. Replaced air filter. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 09/14/2021 Hours: 1664.5

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Replaced oil filter with new CH48108-1 and safety. Removed, cleaned, inspected, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. Replaced air filter. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 10/05/2021 Hours: 1718.2

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Replaced oil filter with new AA48108-2 and safety. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]



Air America Aviation Services  
28331 Lemoyne Rd  
Millbury, OH 43447

Make: Piper  
Model: PA18-150  
Tail: N476SM  
S/N: 18-7509080

itions  
er of  
tries.)

Hours:

1808.3 Tach 0.0 ETSMOH 6040.1 ETT

Engine was disassembled cleaned and inspected. Engine case, oil sump and accy case was repaired by Crankcase Services, Inc. Crankshaft was cleaned, magnafluxed and polished by Kline Aviation. Aircraft Specialties Work Order 257945 for repair of hydraulic sockets, lifters, R/Arms, gears, camshaft, rods. New oil pump kit SL78528KIT installed during reassembly. All new hardware, springs, oil pressure ball, bearings, gaskets and o rings used during the reassembly. New Crank bolt SL-STD-2213. New 8 Rod Bolts SL75061, 8 Rod nuts SL12186. Major Overhaul gasket set SL75439-1. SL 13884A MO3, SL13521A M003 and SL11020 M03 bearings. Installed all new hoses. Reassembled engine per Lycoming overhaul manual. Both mags were repaired by Kline aviation. Carb overhauled by Marvel Schebler carb, MA-4-5 P#10-5193. ECI New TISN12.0CA all 4 cylinders. Installed new SL13444-1 piston pins. Installed 8 new UREM40E spark plugs. New Slick M4004 harness. 4 new Lord Eng Mounts J9613-40. Complete ex stacks, shroud and muffler overhauled by AWI per WO #'s 189566, 189567, 189568. Oil pressure spring SL61084. Replace all oil and fuel lines. Removed, cleaned, pressure checked and reinstalled oil coolers. Removed, cleaned, reinstalled fuel strainer. Installed new air filter. New engine mounts used. Serviced engine With 8 qrts of AeroShell 80 mineral oil. C/W AD 68-05-01. C/W AD 76-07-12 Ignition switch. C/W AD 60-10-8 fuel selector. All AD's checked and C/W as required thru 2022-05. Engine run up and leak checked. Engine operational check and found to operate within Lycoming spec's. As of this date and total time, I certify that this engine has been inspection in accordance with Manufacturers 100 hr / annual inspection, IAW FAR 43 Appendix D scope and detail and was determined to be in airworthy condition. Returned to service this date and total time.-----END-----

Signed:  
Name:

[Redacted Signature]

Cert: A & P [Redacted] IA  
Date: 05/07/2022

Date:  
Tail#:  
Make:  
Installed  
#1124. R  
Engine h  
this date

Date: 05  
Tail#: N  
Make: P

Drained oil  
reusable o  
screen. Se  
gapped, te  
Inspection  
12 Ignition  
operationa  
airworthy c

Date:  
Tail#:  
Make:

Date: 05/31/2022 Hours: 1863.4 Tach 9530.2 AFTT  
Tail#: N476SM  
Make: Piper Model: PA18-150 S/N: 18-7509080

Installed Challenger CP48108C cleanable oil filter. Per STC SE02352CH instructions #1124. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----

Cert: [Redacted]  
Sign: [Redacted]

Air America Aviation Services

Date: 05/31/2022 Hours: 1863.4  
Tail#: N476SM  
Make: Piper Model: PA18-150 S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----

Cert: A [Redacted]  
Sign: [Redacted]

Air America Aviation Services

Date: 06/24/2022 Hours: 1915.9  
Tail#: N476SM  
Make: Piper Model: PA18-150 S/N: 18-7509080

Drained oil. Replaced oil filter with new AA48108-2 and safety. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----

Cert: [Redacted]  
Sign: [Redacted]

Air America Aviation Services

pairs and Alterations  
nd Certificate Number of  
for other specific entries.)

Date: 07/06/2022 Hours: 1967.1

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Replaced oil filter with new AA48108-2 and safety. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert:

Sign:

Date: 07/28/2022 Hours: 2017.0

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert:

Sign:

Date: 09/14/2022 Hours: 2151.9 Tach

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safety suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----

Cert:

Sign:



and Alterations  
Certificate Number of  
per specific entries.)

Date: 10/06/2022  
Tail#: N476SM  
Make: Piper

Drained oil. Replaced oil filter with new AA48108-2 and safety. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----

Date: 10/06/2022  
Tail#: N476SM  
Make: Piper

Inspected with Lycoming. Drained oil. Replaced oil filter with new AA48108-2 and safety. Reengine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----

Date: 10/04/2022 Hours: 2215.7

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 12/20/2022 Hours: 2312.3 Tach 504.0 ETSMOH

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Inspected engine in accordance with FAR 43 appendix D scope and detail, along with Lycoming and Piper PA18 100 hr inspection sheet and service manuals. Drained oil. Cleaned Challenger reusable oil filter per instructions reinstall and safety. Remove, inspect clean, reinstalled and safety oil suction screen. Serviced engine with 8 qrts of Aero Shell 80W. Compression check completed as follows #1: 74/80 #2: 73/80 #3: 72/80 #4: 74/80. Removed all spark plugs, cleaned, gapped, tested, rotated and re-installed spark plugs. Washed engine. Replace induction filter with new Air filter. Replaced bushings in induction box. Adjust mag timing to 25 degrees. Removed, cleaned, reinstalled fuel strainer. All AD's checked and C/W as required thru 22-12. Engine run up and leak checked. Engine operational check and found to operate within Lycoming spec's. As of this date and total time, I certify that this engine has been inspection in accordance with Manufacturers 100 hr / annual inspection, IAW FAR 43 Appendix D scope and detail and was determined to be in airworthy condition. Returned to service this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 05/04/2023 Hours: Tach 2363.1

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 05/22/2023 Hours: 2400.1

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Removed all cylinders, Sent to KLINE Aviation for rebuild. Re installed cylinders per Lycoming overhaul manual. All locking hardware, o-rings and gaskets are new. Engine run up and leak checked. Engine operational check and found to operate within Lycoming spec's. As of this date and total time, I certify that this engine has been inspection and was determined to be in airworthy condition. Returned to service this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 05/30/2023 Hours: Tach 2454.3

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]  
Sign: [Redacted]

Date: 06/20/2023 Hours: Tach 2520.8

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Replaced all 8 spark plugs with new Tempest UREM40E Plugs. It appears that the oil cooler is leaking on a core channel. Replace cooler with new Niagara oil cooler 20003A Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]  
Sign: [Redacted]



# ENGINE LOG

TACH: 2584.3

N476SM

JULY 6, 2023

- DRAINED OIL, INSPECTED AND CLEANED OIL FILTER. NO METAL CONTAMINATION FOUND. CP623 SEAL NOT AVAILABLE FOR CHALLENGER OIL FILTER. INSTALLED CHAMPION CH48108 FILTER PER AIRWOLF ICA.
- SERVICED ENGINE WITH 6 QTS AEROSHELL W-100.
- CLEANED, INSPECTED AND ROTATED SPARK PLUGS. TORQUED TO 420 INLBS.
- PERFORMED ENGINE GROUND RUN AND LEAK CHECK. OPS CHECK SATISFACTORY. NO LEAKS DETECTED.

THE AIRCRAFT AIRFRAME, AIRCRAFT ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W/O NO. [Redacted] SIGNED: [Redacted]

WIPARE, INC. CR316WR390K PHONE [Redacted]

The ATC transponder was tested and inspected on 8/21/23 and found to comply with 91.413 Part 43, Appendix F. Automatic altitude reporting equipment was tested and calibrated on 8/21/23 in compliance with 91.411 FAR 43, Appendix E, Paragraph (C) to 1000 ft. Work Order Number: 2815-1

Signature [Redacted]  
TOP FLIGHT AVIONICS  
C.R.S. TFGR831K

Date: 10/03/2023 Hours: Tach 2895.0  
Tail#: N476SM  
Make: Piper Model: PA18-150 S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Replaced #2 cylinder with a repaired ECI cylinder. All cylinder work done per Lycoming Maintenance Manual. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time. -----END-----



Air America Aviation Services

Cert: [Redacted]  
Sign: [Redacted]

Date: 10/18/2023 Hours: Tach 2949.5  
Tail#: N476SM  
Make: Piper Model: PA18-150 S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time. -----END-----



Air America Aviation Services

Cert: [Redacted]  
Sign: [Redacted]

Date: 11/13/2023 Hours: Tach 3005.5  
Tail#: N476SM  
Make: Piper Model: PA18-150 S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time. -----END-----



Air America Aviation Services

Cert: [Redacted]  
Sign: [Redacted]

Date: 01/01/2024 Hours: 3029.3 Tach 1221.0 ETSMOH

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Inspected engine in accordance with FAR 43 appendix D scope and detail, along with Lycoming and Piper PA18 100 hr inspection sheet and service manuals. Drained oil. Cleaned Challenger reusable oil filter per instructions reinstall and safety. Remove, inspect clean, reinstalled and safety oil suction screen. Serviced engine with 8 qts of Aero Shell 80W. Compression check completed as follows #1: 72/80 #2: 78/80 #3: 76/80 #4: 76/80. Replace #1 EGT probe with new probe. Removed all spark plugs, cleaned, gapped, tested, rotated and re-installed spark plugs. Washed engine. Adjust mag timing to 25 degrees. Removed, cleaned, reinstalled fuel strainer. All AD's checked and C/W as required thru 23-12. Engine run up and leak checked. Engine operational check and found to operate within Lycoming spec's. As of this date and total time, I certify that this engine has been inspection in accordance with Manufacturers 100 hr / annual inspection, IAW FAR 43 Appendix D scope and detail and was determined to be in airworthy condition. Returned to service this date and total time.-----END-----



Air America Aviation Services

Cert:

Sign:

Date: 03/04/2024 Hours: Tach 3056.0

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W80. Replace oil temp prob with new Prob. P#: 400509. Replaced EGT prob with new prob. P#: M-111. Compression check #1: 76/80, #2: 77/80, #3: 77/80, #4: 75/80. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert:

Sign:

Date: 04/09/2024 Hours: Tach 3105.0

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert:

Sign:

Date: 04/29/2024 Hours: Tach 3156.44

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert:

Sign:

Date: 05/30/2024 Hours: Tach 3221.5

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed and Replace #4 cyl. with rebuilt Cyl. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 06/10/2024 Hours: Tach 3275.6

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 06/22/2024 Hours: Tach 3318.0

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Removed old oil valve. Replace with new oil valve. Replaced oil cooler with a cleaned, inspected and serviceable oil cooler. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 07/01/2024 Hours: Tach 3360.0

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, cleaned, inspected, reassembled, installed and safety reusable oil filter. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Installed new Skytec 149-NL starter. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 07/09/2024 Hours: Tach 3407.3

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Replaced #3 cylinder with rebuilt cylinder. All cylinder were done per Lycoming maintenance manual. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 07/22/2024 Hours: Tach 3458.0

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled, and safetied suction oil screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 08/06/2024 Hours: Tach

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled oil safety screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 08/19/2024 Hours: Tach 3570.0

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled oil safety screen. Serviced engine with 8 quarts of AeroShell W100. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----



Air America Aviation Services

Cert: [Redacted]

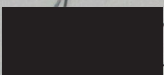
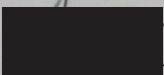
Sign: [Redacted]

Date: 08/26/2024 Hours: Tach 3607.4  
Tail#: N476SM  
Make: Piper

Model: PA18-150 S/N: 18-7509080

Abnormal engine start and mag check. Removed, replaced Left and Right mag with repaired mags. Preformed operational check. No abnormalities found. I hereby certify that this engine maintenance was completed in accordance with the maintenance manual and is determined to be in an airworthy condition as of the date of this logbook service record. -----END-----

 Air America Aviation Services

Cert:   
Sign: 

Date: 08/31/2024 Hours: Tach 3626.0  
Tail#: N476SM  
Make: Piper

Model: PA18-150 S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled oil safety screen, Serviced engine with 8 quarts of AeroShell W80. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Removed #1 cylinder. sent to Kline aviation for rebuild. Reinstalled cylinder per Lycoming overhaul manual. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time. -----END-----

 Air America Aviation Services

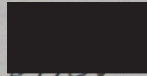
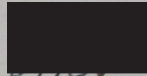
Cert:   
Sign: 

Date: 09/03/2024 Hours: Tach 3644.0  
Tail#: N476SM  
Make: Piper

Model: PA18-150 S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled oil safety screen, Serviced engine with 8 quarts of AeroShell W80. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time. -----END-----

 Air America Aviation Services

Cert:   
Sign: 

Date: 09/17/2024 Hours: Tach 3692.0  
Tail#: N476SM  
Make: Piper

Model: PA18-150 S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled oil safety screen, Serviced engine with 8 quarts of AeroShell W80. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time. -----END-----

 Air America Aviation Services

Cert:   
Sign: 

Date: 10/14/2024 Hours: Tach 3748.2

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled oil safety screen. Serviced engine with 8 quarts of AeroShell W80. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----

Cert:

Sign:

Air America Aviation Services

Date: 10/29/2024 Hours: Tach 3797.1

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled oil safety screen. Serviced engine with 8 quarts of AeroShell W80. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----

Cert:

Sign:

Air America Aviation Services

Date: 11/18/2024 Hours: Tach 3846.4

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled oil safety screen. Serviced engine with 8 quarts of AeroShell W80. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Compression check #1 68/80 #2 42/80 #3 72/80 #4 66/80. Removed, Replaced #2 Cylinder with a reworked cylinder. All work done per Lycoming maintenance manual. Complied with AD 68-05-01. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----END-----

Cert:

Sign:

Air America Aviation Services

Date: 01/03/2025 Hours: 3868.2 Tach 2059.9 ETSMOH 8100.0 ETT

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Inspected engine in accordance with FAR 43 appendix D scope and detail, along with Lycoming and Piper PA18 100 hr inspection sheet and service manuals. Compression check completed as follows #1: 74/80 #2: 76/80 #3: 75/80 #4: 74/80. Replaced air filter PN 2220. Removed all spark plugs, cleaned, gapped, tested, rotated and re-installed spark plugs. Adjust mag timing to 25 degrees. Removed, cleaned, reinstalled fuel strainer. Removed Carb airbox replaced with repaired assembly. All AD's checked and C/W as required thru 24-12. Engine run up and leak checked. Engine operational check and found to operate within Lycoming spec's. As of this date and total time, I certify that this engine has been inspection in accordance with Manufacturers 100 hr / annual inspection, IAW FAR 43 Appendix D scope and detail and was determined to be in airworthy condition. Returned to service this date and total time.-----END-----

Cert:

Sign:

Air America Aviation Services

Cert:  
Sign:

Date: 07/14/2025 Hours: Tach 4176.9

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled oil safety screen. Serviced engine with 8 quarts of AeroShell W120. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----  
END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 07/24/2025 Hours: Tach 4227.3

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled oil safety screen. Serviced engine with 8 quarts of AeroShell W120. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----  
END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

Date: 08/11/2025 Hours: Tach 4281.8

Tail#: N476SM

Make: Piper

Model: PA18-150

S/N: 18-7509080

Drained oil. Removed, installed and safety new oil filter AA48108-2. Removed, inspected, cleaned, reinstalled oil safety screen. Serviced engine with 8 quarts of AeroShell W120. Removed, cleaned, gapped, tested, rotated, and reinstalled spark plugs. Inspection of muffler and muffler shroud. Due every 50 hrs. Complied with AD 76-07-12 Ignition switch. Complied with AD 60-10-8 fuel selector. Run up, leak check and operational check completed. I certify that this Engine has been determined to be in airworthy condition and returned to service on this date and total time.-----  
END-----



Air America Aviation Services

Cert: [Redacted]

Sign: [Redacted]

nd Alterations  
(icate Number of  
specific entries.)

YEAR  
20  
DATE

# LYCOMING O-360-A SERIES PARTS CATALOG

WIDE CYLINDER FLANGE CRANKCASE MODEL ENGINES

## CYLINDER, PISTON AND VALVE TRAIN

### VALVE ASSEMBLY

| FIG. REF. | PART NUMBER | DESCRIPTION                                       | ON ALL | QUANTITY PER ASSEMBLY |      |      |       |      |       |      |     |     |     |     |     |      |     |
|-----------|-------------|---------------------------------------------------|--------|-----------------------|------|------|-------|------|-------|------|-----|-----|-----|-----|-----|------|-----|
|           |             |                                                   |        | A1A                   | A1AD | A1ES | A1ESD | A1GS | A1GSD | A1ID | A2A | A2D | A2F | A2G | A3A | A3AD | A4A |
| 19        |             |                                                   |        |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 1         | 73938       | VALVE, Intake                                     | 4      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 2         | 74541       | VALVE, Exhaust (rotator type)                     | 4      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 3         | LW-11796    | SPRING, Valve, inner                              | 8      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 4         | LW-11800    | SPRING, Valve, outer                              | 8      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 5         | 85441       | SEAT, Valve spring, lower, intake                 | 4      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 6         | LW-13323    | SEAT, Valve spring, lower, exhaust                | 4      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 7         | LW-10077    | SEAT, Valve spring, upper, intake                 | 4      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 8         | LW-10076    | SEAT, Valve spring, upper, exhaust (rotator type) | 4      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 9         | 60009       | KEY, Valve, intake                                | 8      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 10        | MS13997-3   | KEY, Valve, exhaust (rotator type)                | 8      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 11        | MS13998-3   | CAP, Valve stem, exhaust (rotator type)           | 4      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 12        | 78290       | PLUNGER ASSY., Hydraulic tappet                   | 8      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 13        | 78624       | SOCKET, Push rod, hydraulic tappet                | 8      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 14        | LW-11486    | TUBE, Push rod shroud                             | 8      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 15        | LW-14995    | SPRING, Shroud tube                               | 4      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 16        | LW-12272    | LOCKPLATE, Shroud tube                            | 4      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 17        | STD-1411    | NUT, 1/4-20 plain                                 | 4      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 18        | 62922       | SEAL, Shroud tube                                 | 8      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |
| 19        | 70310       | SEAL, Shroud tube                                 | 8      |                       |      |      |       |      |       |      |     |     |     |     |     |      |     |

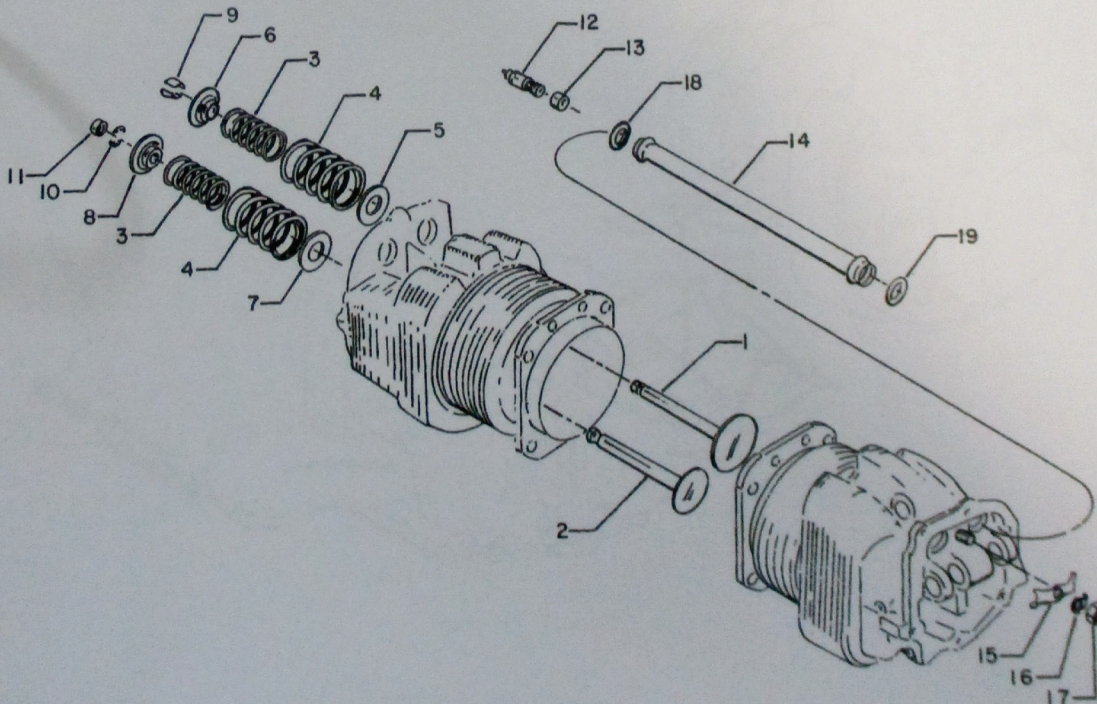


Figure 19.