



The Standard

ENGINE LOG

ASA-SE-1

RE
AIRWC
c. (P)
nio, 1

Engine Record General Information

Manufacturer Lycoming Model 0-320-D3G
Serial L-12786-39A Type Certificate _____

This engine is currently installed in aircraft: _____

Minimum Octane Fuel 100 OCT Oil Grade: Summer 100 20 Winter 15W50 All ALL

Magneto Time 25° BTC Point Setting LEFT ROTATED Firing Order 1-3-2-4

Spark Plug Gap .018-022

Manufacturer's Recommended Overhaul at 2000 hours



YEAR 20 <u>15</u> DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations <small>Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)</small>
------------------------------	---------------------------	-------------------	-----------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

6-17

249
307 Airport Street
F.A.A. Certified #IQ4R267M

AVIATION ENGINES, INC.

Centreville, AL 35042
Phone: 1-(205) 926-5186

MAINTENANCE RELEASE

Model 0-320-D3G Serial No. L-12786-39A
 Total Time 4291.3 Time S.M.O.H. 2.5hr
 Date Overhauled 6/17/15 Work Order No. 4710

The above listed component has been inspected, remanufactured and test run as prescribed by manufacturers specifications. All steel parts magnafluxed and non-ferrous parts zygloed. No further run in of the installation is required. All factory bulletins complied with at time of overhaul. All applicable airworthiness directives complied with. The engine and/or component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent _____ agency.

Signed: _____

8e _____ Test with Mineral oil Shell 100

N5542U
Hobbs: 1554.80
T.S.M.O.H 2.5

Tach: 5011.83
T.T.A.F: 5011.83

July 20, 2015
T.T.E: 4291.30
Engine S/N: L-12786-39A

1. Removed Lycoming engine model O-320-E2A , s/n L-26764-27A.
2. Installed Lycoming engine model O-320-D3G, s/n L12786-39A.
3. All work done IAW Arthur Mattson STC ~~SA413CH~~ and Piper PA28-140 maintenance manual. **SA413CH**
4. Replaced all fluid carrying hoses.
5. Replaced all engine isolators and hardware.
6. Inspected and reinstalled exhaust system with new gaskets.
7. Installed new oil cooler, see 8130-3 dated 6/17/15.
8. Installed Overhauled carburetor p/n 10-5217, see 8130-3 dated 6/17/15 (Marvel-Schebler LLC)
9. C/W AD 73-20-01 (piston pins) C/W at overhaul 6/16/15
10. C/W AD87-10-06 (rocker arms) C/W at overhaul 6/16/15
11. C.W AD96-09-10 (oil pump impeller/shaft) C/W at overhaul 6/16/15. LW-18109 & LW-18110 'N' & 'C' installed
12. C/W AD98-02-08 (Crank shaft corrosion) see Aircraft Specialties Services Inc, WO # 174446 dated 8/13/09 Marked "PID"
13. Completed a 100 hr I.A.W. FAR 43 appendix "d" and manufacturer's maintenance manual.
14. Replaced intake air filter with new P/N: BA3.
15. Checked AD's through Avant 2015-13.

-----END-----

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


Paul H. Peterson AF 

| 1 2 3 4 5 6 7 8 9 10 |

N5542U

Tach: 5036.91

July 29, 2015

1. Removed and replaced vacuum pump p/n 215cc see 8130-3 dated 6/5/15. Operational check / leak ck satisfactory.

-----END-----

Return aircraft to service.


Paul H. Peterson

N5542U

Tach: 5036.91

July 29, 2015

END

Return aircraft to service.

[Redacted]
Paul H. Peterson [Redacted]

N5542U

Tach: 5036.91

July 29, 2015

1. Changed oil and filter, utilizing 8 Qts of Phillips X/C 20W 50 oil and a Tempest AA48110-2 filter.
2. Completed engine run up and leak checks, operational test satisfactory, no leaks detected.

END

Return aircraft to service.

[Redacted]

Paul H. Peterson [Redacted]

IN
CE

N5542U

August 21, 2015

TT: 5073.67 Hobbs: 1635.3

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.

[Redacted]

Donald H Purtell A&P [Redacted]

END

sts
e, R
othe

N5542U
TTE: 4371.42

TT:5092.04

September 28, 2015

Hobbs: 1659

Eng S/N: L-12786-39A

- 1) Dynamic balanced engine and propeller as a unit.
- 2) Installed weight: 17grams at 30° before TC, 12 grams at 210° before TC.
- 3) Final reading was 0.04 IPS

Return aircraft to service.

[Redacted]

Phillip Maddox A&P [Redacted]

END

cian or

October 20, 2015 N5542U Tach: 5112.37 Hobbs: 1685.5
TTAF: 5112.37 TTE: 4391.8 TSMOH: 103.00 TT Prop: 2724.19
TTSPOH: 0658.92 Eng S/N: 1-12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using AVANT 2015-20
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 76/80, #2 74/80, #3 78/80, #4 76/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Ran engine to check for oil leaks and operation. Found no defects.

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 at this time.

Wade Thompson A&P [Redacted]

END

pec
sed
ack

November 24, 2015 N5542U Tach: 5159.62 Hobbs: 1748.5
1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
2) Cleaned and checked engine spark plugs.
3) Ran engine to check for oil leaks. Found no defects.
4) Work performed IAW Piper SM.

Return aircraft to service.

[Redacted]
Philip J Maddox A&P [Redacted]

END

N5542U December 1, 2015 TT: 5193.98 Hobbs: 1799.5

- 1) Installed new engine driven fuel pump, P/N LW 15472, S/N 08J109. See 8130 for details of overhaul.
- 2) Ran engine to check operation and for leaks, found no defects.
- 3) Work preformed IAW Lycoming overhaul Manual.

Return aircraft to service.

[Redacted]
Donald H Purtell A&P [Redacted]

END

N5542U January 14, 2016 Tach: 5198.91 Hobbs: 1801.4
TTAF: 5198.91 TTE: 4478.34 TSMOH: 0189.54 TT Prop: 2810.73
TTSPOH: 0745.46 Eng S/N: 1-12786-39A

- 1) Completed Annual inspection IAW FAR 43 appendix "d" using the manufactures inspection sheet as a guide.
- 2) Checked AD's using AVANT 2015-26
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 76/80, #2 78/80, #3 75/80, #4 77/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Replaced oil fill tube gasket P/N 72059.
- 8) Installed new valve covers on #1 & 2 cylinders, P/N RG-75906-SP.
- 9) Ran engine to check for oil leaks and operation. Found no defects.

I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in an airworthy condition at this time.

Donald H Purtell A&P

END

N5542U March 17, 2016 Tach: 5248.75 Hobbs: 1868.9
1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
2) Cleaned and checked engine spark plugs.
3) Ran engine to check for oil leaks. Found no defects.
4) Work performed IAW Piper SM.

Return aircraft to service.

Donald H Purtell A&P

END

N5542U March 28, 2016 TT: 5257.28 Hobbs: 1880.2

- 1) Installed new engine driven fuel pump, P/N LW 15472, S/N 09AZ18. See 8130 for details of overhaul.
- 2) Installed serviceable carburetor P/N 10-5217 S/N MS851111.
- 3) Ran engine to check operation and for leaks, found no defects.
- 5) Work preformed IAW Lycoming overhaul Manual.

Return aircraft to service.

James D Jones A&P

END

RE
AIRW
C. (P
nio,

N5542U April 25, 2016 Tach: 5298.31 Hobbs: 1934.5
TTAF: 5298.31 TTE: 4577.74 TSMOH: 0288.94 TT Prop: 2910.13
TTSPOH: 0844.86 Eng S/N: 1-12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using AVANT 2016-07
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 79/80, #2 79/80, #3 77/80, #4 79/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Ran engine to check for oil leaks and operation. Found no defects.

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 at this time.

Wade Thompson A&P [REDACTED]

-----END-----

N5542U May 24, 2016 Tach: 5348.1 Hobbs: 2000.8
1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
2) Cleaned and checked engine spark plugs.
3) Ran engine to check for oil leaks. Found no defects.
4) Work performed IAW Piper SM.

Return aircraft to service

[REDACTED]
Donald H Purtell A&P [REDACTED]

-----END-----

bbs: 2000.8
est AA48110-2
o defects.

N5542U June 22, 2016 Tach: 5397.75 Hobbs: 2067.4
TTAF: 5397.75 TTE: 4677.18 TSMOH: 0388.38 TT Prop: 3009.57
TTSPOH: 0944.30 Eng S/N: I-12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 06/21/2016.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 79/80, #2 77/80, #3 77/80, #4 79/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Ran engine to check for oil leaks and operation. Found no defects.

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 at the

Phillip J Maddox A&P

END

N5542U July 16, 2016 Tach: 5448.45 Hobbs: 2134.9

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.

James D Jones A&P

END

N5542U July 15, 2016 TT: 5445.89 Hobbs: 2131.7

- 1) Installed O/Hed carburetor P/N 10-5217 S/N MSB16824.
- 2) Ran engine to check operation and for leaks, found no defects.
- 3) Work preformed IAW Lycoming overhaul Manual.

Return aircraft to service.

Wade Thompson A&P

END

RE
AIRW
C. (P
nio, 1

N5542U August 18, 2016 Tach: 5497.62 Hobbs: 2202.3
TTAF: 5397.62 TTE: 4777.05 TSMOH: 0488.25 TT Prop: 3109.44
TTSPOH: 1044.17 Eng S/N: I-12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 08/16/2016.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 79/80, #2 80/80, #3 80/80, #4 80/80.
- 5) Preformed 500 Hr inspection on the left and right magneto.
- 6) Checked and set timing IAW engine data tag.
- 7) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 8) Ran engine to check for oil leaks and operation. Found no defects.

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 at this time.

Wade Thompson A&P [redacted]
-----END-----

f In: N5542U September 13, 2016 Tach: 5547.52 Hobbs: 2269.6
end

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.

Phillip J Maddox A&P [redacted]

-----END-----

9.6
0-2

October 04, 2016 N5542U Tach: 5596.91 Hobbs: 2336.5
TTAF: 5596.9 TTE: 4876.34 TSMOH: 587.54 TT Prop: 3208.73
TTSPOH: 1143.46 Eng S/N: I-12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 10/01/2016.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 78/80, #2 79/80, #3 76/80, #4 79/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Ran engine to check for oil leaks and operation. Found no defects.

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 at this time.

Wade Thompson A&P

END

In: N5542U October 5, 2016 TT: 5597.02 Hobbs: 2336.7

nd
ee

- 1) Installed serviceable carburetor P/N 10-5217 S/N MS955210 removed.
- 2) Ran engine to check operation and for leaks, found no defects.
- 3) Work preformed IAW Lycoming overhaul Manual.

Return aircraft to service.

Wade Thompson A&P

END

N5542U November 2, 2016 TT: 5652.4 Hobbs: 2409.1

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.

Phillip J Maddox A&P

END

RE
AIRW
C. (P
nio,

N5542U November 28, 2016 Tach: 5696.84 Hobbs: 2468.0
TTAF: 5696.84 TTE: 4976.27 TSMOH: 0687.47 TT Prop: 3308.66
TTSPOH: 1243.39 Eng S/N: 1-12786-39A

- 1) Completed Annual inspection IAW FAR 43 appendix "d" using the manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 11/25/2016.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 76/80, #2 78/80, #3 75/80, #4 77/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Installed new cylinder in the #1 position, P/N AEL65102 SN04.1.
- 8) Tightened hose clamp on #2 cylinder drain back hose.
- 9) Ran engine to check for oil leaks and operation. Found no defects.

I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in an airworthy condition at this time.

Donald H Purtell A&P

-----END-----

f l r

enc N5542U January 11, 2017 TT: 5746.36 Hobbs: 2534.0
See

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.

Jacob N Smith A&P

-----END-----

N5542U March 13, 2017 Tach: 5796.7 Hobbs: 2601.0
TTAF: 5796.7 TTE: 5076.14 TSMOH: 0787.34 TT Prop: 3408.53
TTSPOH: 1343.26 Eng S/N: I-12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 3/11/17
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 75/80, #2 77/80, #3 72/80, #4 72/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Installed one new spark plug P/N UREM40E.
- 8) Ran engine to check for oil leaks and operation. Found no defects.

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 at this time.

Wade Thompson A&P [REDACTED]

-----END-----

N5542U April 18, 2017 TT: 5846.6 Hobbs: 2665.6

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips Victory AW100 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

[REDACTED]
Phillip J Maddox A&P [REDACTED]

-----END-----

PRE AIRW C. (P) nio,

N5542U June 13, 2017 Tach: 5896.32 Hobbs: 2730.4
TTAF: 5896.32 TTE: 5175.76 TSMOH: 0886.96 TT Prop: 3508.15
TTSPOH: 1442.88 Eng S/N: 1-
12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 6/13/17.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 75/80, #2 77/80, #3 72/80, #4 72/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Staked #4 cylinder.
- 8) Installed new valve cover gasket #3 cylinder, P/N 75906SP.
- 9) Installed new oil tube gasket, P/N RG-72059.
- 10) Torqued bolts at front of engine.
- 11)
- 12) Ran engine to check for oil leaks and operation. Found no defects.

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 at this time.

Wade Thompson A&P [REDACTED]

-----END-----

N5542U August 3, 2017 TT: 5947.12 Hobbs: 2797.5

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.

[REDACTED]
Phillip J Maddox A&P [REDACTED]

-----END-----

N5542U August 8, 2017 TT: 5955.73 Hobbs: 2808.3

- 1) Installed serviceable magneto has had the 500hr inspection, Mod 4370, S/N 14010125. Set timing IAW engine data plate.
- 2) Check operation, found no defects.
- 3) Work performed IAW Piper SM.

Return aircraft to service.

[REDACTED]
Phillip J Maddox A&P [REDACTED]

-----END-----

N5542U September 7, 2017 Tach: 5996.16 Hobbs: 2862.4
TTAF: 5996.16 TTE: 5275.59 TSMOH: 0986.79 TT Prop: 3607.98
TTSPOH: 1542.71 Eng S/N: L-12786-39A

- 1) Completed Annual inspection IAW FAR 43 appendix "d" using the manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 9/06/2017.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 73/80, #2 76/80, #3 74/80, #4 71/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Installed O/H carburetor, P/N 10-5217, S/N MSE09706. See 8130 for details of O/H.
- 8) Inspected lt & rt magneto IAW 500 HR inspection.
- 9) Installed new crankshaft seal, P/N 13792.
- 10)
- 11) Ran engine to check for oil leaks and operation. Found no defects.

I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in an airworthy condition.

Phillip J Maddox A&P

END

N5542U September 13, 2017 TT: 6002.14 Hobbs: 2870.4

- 1) Installed new spark plug, P/N UREM40E in the #2 cylinder bottom.
- 2) Check operation, found no defects.
- 3) Work performed IAW Piper SM.

Return aircraft to service.

Phillip J Maddox A&P

END

N5542U September 29, 2017 TT: 6046.1 Hobbs: 2928.8

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.

Donald H Purtell A&P

END

RE
AIRW
IC. (P
nio,

N5542U November 14, 2017 Tach: 6096.22 Hobbs: 2992.6
TTAF: 6096.22 TTE: 5375.65 TSMOH: 1086.85 TT Prop: 3708.04
TTSPOH: 1642.77 Eng S/N: I-12786-39A

- 1) Completed Annual inspection IAW FAR 43 appendix "d" using the manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 11/07/2017.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 76/80, #2 78/80, #3 75/80, #4 77/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Tightened all oil drain back hose clamps.
- 8) Ran engine to check for oil leaks and operation. Found no defects.

I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in an airworthy condition at this time.

Phillip J Maddox A&P

-----END-----

N5542U December 8, 2017 TT: 6145.53 Hobbs: 3060.3

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.

Phillip J Maddox A&P

-----END-----

N5542U December 11, 2017 TT: 6151.82 Hobbs: 3068.7

- 1) Removed & repaired by installing new disturber gear, P/N K3008.
- 2) Check operation, found no defects.
- 3) Installed noise filter on the alternator power lead, P/N CA63897-006
- 4) Work performed IAW Piper SM.

Return aircraft to service.

Donald H Purtell A&P

-----END-----

N5542U January 15, 2018 Tach: 6195.21 Hobbs: 3127.4
TTAF: 6195.21 TTE: 5474.65 TSMOH: 1185.85 TT Prop: 3807.04
TTSPOH: 1741.77 Eng S/N: 1-12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 1/9/18.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 75/80, #2 77/80, #3 72/80, #4 72/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Ran engine to check for oil leaks and operation. Found no defects.

I certify that this engine has been inspected in accordance with a 100 l inspection and has been determined to be in an airworthy condition at this time.

James D Jones A&P [Redacted Signature]

-----END-----

N5542U February 23, 2018 TT: 6246.02 Hobbs: 3194.9

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.
[Redacted Signature]
Joshua L Jacobson A&P [Redacted Signature]

N5542U April 21, 2018 TT: 6344.22 Hobbs: 3337.8

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.
[Redacted Signature]
Joshua L Jacobson A&P [Redacted Signature]

RE AIRW...
nc. (P...
nio, 1

N5542U March 27, 2018 Tach: 6294.22 Hobbs: 3260.20
TTAF: 6294.22 TTE: 5573.66 TSMOH: 1284.86 TT Prop: 3906.05
TTSPOH: 1840.78 Eng S/N: I-12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 3/27/18.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 77/80, #2 77/80, #3 78/80, #4 75/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Safetied propeller mount bolts with .041 safety wire.
- 8) Installed new vacuum pump drive seal, P/N 06A19956. Installed Accessory drive adapter with new gaskets, P/N SL8313 & SL 61183.
- 9) Installed one new spark plug, P/N UREM40E.
- 10) Ran engine to check for oil leaks and operation. Found no defects.

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 at this time.

Wade Thompson A&P [REDACTED]

-----END-----

N5542U May 11, 2018 Tach: 6393.93 Hobbs: 3391.5
TTAF: 6393.93 TTE: 5673.37 TSMOH: 1384.57 TT Prop: 4005.76
TTSPOH: 1940.49 Eng S/N: I-12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 5/08/18.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 77/80, #2 77/80, #3 78/80, #4 75/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Installed new #4 cylinder and gaskets, P/N TIST-04-ICA. See 8130 for details.
- 8) Ran engine to check for oil leaks and operation. Found no defects.

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 at this time.

Wade Thompson A&P [REDACTED]

-----END-----

Form Tracking Number: 160831155514-1-1
 Invoice Number: NEW
 Status/Work

N5542U June 13, 2018 19: 0444.14 Hobbs: 3459.2

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.

Wade Thompson A&P [REDACTED]

-----END-----

N5542U June 14, 2018 11: 5444.14 Hobbs: 3459.2

- 1) Installed new cylinder assembly & piston, P/N AEL 65102/TIST04.1CA in the #2 position. See 8130 for Maintenance Release.
- 2) Used new gaskets.
- 3) Ran engine to check for oil leaks & engine operation. Found no defects. Test flue aircraft, found no defects.
- 4) Work performed IAW Lycoming O/H Manual.

Return aircraft to service.

Wade Thompson A&P [REDACTED]

-----END-----

2EI 2W0 (P) 9

REGISTRATION	DATE	TOTAL	Description of In
N5542U	July 18, 2018	Tach: 6493.71	Hobbs: 3524.0
		TTAF: 6493.71	TTE: 5773.15
		TSMOH: 1484.35	TT Prop: 4105.54
		TTSPOH: 2040.27	Eng S/N: I-12786-39A

N5542U August 13, 2018 TT: 6542.4 Hobbs: 3587.8

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 7/18/18.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 71/80, #2 75/80, #3 70/80, #4 79/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Ran engine to check for oil leaks and operation. Found no defects.

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.

Jimmy Garrison A&P

-----END-----

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 at this time.

Wade Thompson A&P

-----END-----

EAS
RTHINI
0003SW
X 7821
Quantity
22

N5542U September 12, 2018 Tach: 6592.64 Hobbs: 3654.6
TTAF: 6592.64 TTE: 5872.08 TSMOH: 1583.28 TT Prop: 4204.47
TTSPOH: 2139.2 Eng S/N: 1-12786-39A

- 1) Completed Annual inspection IAW FAR 43 appendix "d" using the manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 09/08/2018.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 77/80, #2 77/80, #3 71/80, #4 75/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Installed serviceable left mag Mod: 4371, S/N 11060341.
- 8) Performed 500 Hr inspection on right mag.
- 9)
- 10) Ran engine to check for oil leaks and operation. Found no defects.

I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in an airworthy

Phillip J Maddox A&P

END

N5542U October 3, 2018 TT: 6642.91 Hobbs: 3587.8

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Ran engine to check for oil leaks. Found no defects.
- 4) Work performed IAW Piper SM.

Return aircraft to service.

Jimmy Garrison A&P

END

RE
AIRW
10, 1
(P
9

N5542U October 28, 2018 Tach: 6692.64 Hobbs: 3787.7
 TTAF: 6692.64 TTE: 5972.08 TSMOH: 1683.28 TT Prop: 4304.47
 TTSPOH: 2239.2 Eng S/N: I-12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev:10/27/18.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 71/80, #2 75/80, #3 70/80, #4 79/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Ran engine to check for oil leaks and operation. Found no defects.

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 at this time

James D Jones A&P

-----END-----

In: N5542U November 27, 2018 TT: 6741.48 Hobbs: 3853.0

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Installed new UREM40E spark plug.
- 4) Ran engine to check for oil leaks. Found no defects.
- 5) Work performed IAW Piper SM.

Return aircraft to service

Adam Chinrock A&P

-----END-----

EAS

ERTHINI

0003SW

X 7821

Quantit

22

N5542U

- 1) Installed new cylinder assembly & piston 65102/TIST04.1CA, S/N 116435-04 in the #3 position. See 8130 for Maintenance Release.
- 2) Installed with new gaskets set.
- 3) Ran engine to check for oil leaks & engine operation. Found no defects. Test flue aircraft, found no defects.
- 4) Work performed IAW Lycoming O/H Manual.

Ran engine to service.

Phillip J Maddox A&P

END

January 4, 2019
 Tach: 6792.39 Hobbs: 3919.4
 TTAF: 6792.39 TTE: 6071.82 TT Prop: 4464.23
 TTSPOH: 2338.95 TSMOH: 1783.03
 Eng S/N: 1-12786-39A

- 1) Completed 100 HR inspection IAW FAR 43 appendix "d" and manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 1/01/19.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 78/80, #2 78/80, #3 72/80, #4 70/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Installed O/H carburetor P/N 10-5217, S/N MS03MB23. See 8130 fore details of O/H.
- 8) Tightened oil drain back fitting at #2 & 4 cylinder heads.
- 9)
- 10) Ran engine to check for oil leaks and operation. Found no defects.

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 at this

Phillip J Maddox A&P

END

Tracking Number: 0831155514-1-1
 Invoice Number:
 Status/Work
 NEW

N5542U March 12, 2019 Tach: 6891.92 Hobbs: 4053.4
 TTAF: 6891.92 TTE: 6171.35 TSMOH: 1882.56 TT Prop: 4503.74
 TTSPOH: 2438.48 Eng S/N: 1-12786-39A

YEAR	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Ins
20	N5542U	February 9, 2019	TT: 6839.46	Hobbs: 3983.4

- 1) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips 20W50 oil.
- 2) Cleaned and checked engine spark plugs.
- 3) Installed new UREM40E spark plug.
- 4) Ran engine to check for oil leaks. Found no defects.
- 5) Work performed IAW Piper SM.

Return aircraft to service.

Jimmy Garrison

-----END-----

- 1) Completed Annual inspection IAW FAR 43 appendix "d" using the manufactures inspection sheet as a guide.
- 2) Checked AD's using ATP Aviation Hub rev: 03/11/2019.
- 3) Changed oil and filter. Installed new Tempest AA48110-2 oil filter and 8 Qt's Phillips X/C 20W50 oil.
- 4) Compression; #1: 77/80, #2 77/80, #3 71/80, #4 75/80.
- 5) Checked and set timing IAW engine data tag.
- 6) Cleaned, gapped, inspected, tested, and rotated all spark plugs.
- 7) Installed new valve cover gaskets #2 & 4, P/N 75906.
- 8) Installed new seals on the #2 cylinder exhaust tube.
- 9) Installed two new spark plugs, P/N UREM40E.
- 10) Tightened clamp on the oil return line #4 cylinder
- 11) Installed new gasket #3 cylinder, P/N 71973.
- 12) Installed new exhaust gasket on #3 & 4 Cylinder.
- 13) Ran engine to check for oil leaks and operation. Found no defects.

I certify that this engine has been inspected in accordance with an annual inspection and has been determined to be in an airworthy condition at this time.

Wade Thompson

-----END-----

EA
 RTHI
 000032
 XX 782
 Quar
 22

