# ENGINE
# MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. N475RT

Engine Manufacturer Lycoming

Model IO-540-K1A5

Serial No. L-24411-48E

Date installed on aircraft 1/30/2012

Time Between Overhauls (TBO) _____ Hours

If used on multi-engine aircraft:

☐ Right ☐ Left
☐ Front ☐ Rear

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| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|---|---|---|---|---|
| | | | | **TOTALS** brought forward from previous page |

Form No. 2480 (3/04-LM)

LYCOMING
A Textron Company

[redacted] Street
[redacted]01 U.S.A.

This engine has been overhauled in accordance with the applicable Lycoming specifications. All applicable Federal Aviation Administration Airworthiness Directives and Lycoming Service Bulletins have been complied with. All parts have been inspected and have been determined airworthy to return to service. All accessories as part of the type certificate are new, newly rebuilt or newly overhauled. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

[redacted]

Engine Model: IO-540-K1A5
Serial #: L-24411-48E
Total Time: 6804.3
Work Order #: AR520366
Date Completed: 12/15/11

***Lycoming Engines***
[redacted] Oliver Street
Williamsport, PA. 17701
Repair Station: EJ1R115K

Tach: 2592.0

1/30/2012 Tach time 2626.76, 2592.0

Eng. Total Time: 6804.3 Time Since Overhaul : 0.0

Engine installed in aircraft following manufacturers instructions. Lycoming Service Instructions 1002, 1014M, 1070Q, 1080C complied with. Oil coolers flushed and inspected. All flexible fluid lines replaced with new. Induction air filter replaced with new. All ducting replaced with new. Removed preservative oil following Service Instruction #1472. Engine filled with Aeroshell straight mineral oil. Propeller governor overhauled and installed. All engine baffling repaired as needed. New muffler part #K65796-00, Serial #211892 installed. Fuel system preservative oil removed following Lycoming instructions. Engine pre-oiled following Service Instruction 1241C. Engine ground run following Service Instruction #1427C. After initial ground run, oil filter removed and inspected following Service Bulletin #480E. Aircraft released for flight testing and break-in per Service Instruction 1427C.

[redacted]
R. L. Koonce A&P #[redacted]

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October 1, 2016

SkyWest Aviation Inc
N475RT Piper PA-32-300 SN: 35-7540028 Hobbs: 879.3 Tach: 44.5 TTAC: ~~2722.9~~ 2934.0
Lycoming MN: IO-540-K1A5 SN L-24411-48E TSMOH: ~~88.1~~ 299.3

- Complied with Annual Inspection IAW FAR 43 appendix D and Lycoming IO-540 M.M.
- Replaced Oil Filter with new PN Ch48110-1 and serviced engine with Aeroshell W100 Oil.
- Complied with engine compression check. Results: #1 78/80 #2 77/80 #3 78/80 #4 75/80 #5 74/80 #6 74/80
- Replaced #6 valve cover gasket with new PN 07-03046.

I Certify that this Engine has been inspected IAW an annual inspection and was determined to be in an airworthy condition [redacted] AP [redacted]
Benjamin Carbajal

AUG 7, 2017

SkyWest Aviation Inc.
N475RT Piper PA-32-300 SF 35-7540028 Tach 0.0 Hobbs: 899.2 ACTT- 2954.1

- Replaced Tachometer With P/N-13621-004 S/N-2275 IAW Piper AMM Section 9-74
- Engine TSOH 317.2

Joseph Hoppins [redacted] AP [redacted]

September 25, 2017

DEER HORN AVIATION, LTD.
N475RT Piper PA-32-300 S/N: 32-7540028 Acft Tach: 0000.1 Acft TT: 2954.1
Lycoming IO-540-K1A5 S/N: L-24411-48E Engine TT: 7123.7 SMOH: 0319.4

1. Complied with a 100 hour inspection IAW FAR 43 appendix D, using the Piper Cherokee Six/Lance Service Manual, (Table III- I) Inspection Report 100 hour items and FAR 43 appendix D.
2. Compressions are as follows: #1: 75/80 #2: 74/80 #3: 78/80 #4: 74/80 #5: 78/80 #6: 78/80.
3. Complied with AD 99-04-04, eff/rev date 2-25-99, Champion/Slick magneto impulse coupling failure: Inspect every 250 hours TIS. Complied with by CRS N82R254Y, Next Due Tach: 0250.1.
4. Complied with AD 2015-19-07, eff/rev date 11-3-15, fuel inj. line inspection. Performed repetitive 100 hour inspection IAW paragraph (e), (i), (ii), of the AD with no discrepancies noted. Next Due: 09/18 or Tach: 0100.1.or if disturbed.
5. Complied with AD 2017-14-04 eff date: 8-15-2017, failure of oil cooler hoses assy. AD is NA TSO C53a Type D hoses installed.
6. Replaced several Ty-Wraps holding hoses and cables in engine compartment with Adel Clamps, to prevent chaffing against engine components and engine mount.
7. Replaced one each screw in the engine fuel pump cooling shroud. (one screw missing)
8. Cut and inspected oil filter for debris with no abnormal contaminates found.
9. Serviced engine with a CH48103-1 filter. Engine was ground ran and leak checked.

I Certify that this engine has been inspected IAW a 100 hour inspection and was determined to be in an airworthy condition. Pertinent details of the work accomplished on this aircraft are on file at this agency under work order number 1224T
Donald B. Brady [redacted] AP [redacted]

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*Air Mods and Repair, Inc.*
*Trenton-Robbinsville Airport (N87)*
*Factory Authorized Mooney Service Center*

**N475RT 9-14-2018 Tach: 76.2 SMOH: 395.6**

- **C/W Annual inspection & servicing IAW *Piper* inspection form and requirements of FAR 43 Appendix D.**
- **Compressions checked (@80 PSI): 1/ 76 2/ 77 3/ 78 4/ 78 5/77 6/ 73**
- **R&R throttle cable rod end bolt with AN3-10 and castle nut/cotter pin.**
- **Secured oil temp wiring.**
- **Removed both mags, R&R adaptor gaskets PN: 62224 and base gaskets PN: LW-12681, reinstalled and timed to 20 deg., R&R both P lead ring terminals and MS25171-1S rubber boots.**
- **Separated alternator wiring from oil sump.**
- **R&R AC hose adel clamps at engine mount tubes.**
- **R&R prop cable adel clamps at lower intake manifold, 2 each.**
- **Separated fuel injector manifold supply hose from mixture cable.**
- **R&R BA-15 air filter element.**
- **Cleaned, gapped, tested, inspected, rotated and reinstalled spark plugs.**
- **Drained oil, internal contents of oil filter and screen show no unusual debris, Installed new AA48110 filter and serviced engine with 11qts Phillips XC20W-50 oil. Ground run and leak check satisfactory**

*Continued:*

*N475RT Annual, Engine, 9-14-2018, continued:*

- **C/W AD 15-10-07 fuel injector lines IAW MSB 342G, Next Due: any maintenance.**
- **AD compliance checked thru bi-weekly 2018-18.**

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

**Eric L Balke**
**A&P [redacted] IA**

[redacted]

| | | | | |
|---|---|---|---|---|
| 6-31-20 | | | 147.4 | Remove & Replace Vacuum pump with 215cc S/N 187473 [redacted] A/P [redacted] |
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| 1/01/2020 | 7251.5 | 447.2 | 130.0 | On-Site Aero Services, LLC<br>Eagle's Nest Airport (31E)<br>Lycoming IO-540-K1A5 S/N L-24411-48E<br>N475RT January 1, 2020 Tach: 130.0 SMOH: 447.2 Hrs<br>Complied with 100 Hour inspection & routine servicing Ref. Piper PA-32-300 Checklist and requirements of 14CFR part 43 Appendix D<br>• AD Compliance checked thru FAA Bi-Weekly 2020-01<br>• C/W AD 15-19-07 IAW Lyc SB 342G Next Due: Tach 230.0 or next injector maintenance<br>• Performed Differential Compression IAW Lycoming SI 1191A Results @ 80 PSI: 1-73 2-78 3-74 4-77 5-78 6-75. Borescope inspection results normal at this time.<br>• Cleaned engine, tightened rocker cover hardware as required.<br>• Cleaned all fuel injectors, reinstall & leak check. Replaced pushrod tube clamps on # 4 , 5, & 6 cyls.<br>• Cleaned, gapped, & checked core resistance of all spark plugs.<br>• Checked magneto timing against factory specs.<br>• Tightened alternate air cable attach linkage, operational check satisfactory.<br>• Replaced induction air filter element with new.<br>• Installed EZ-Heat model 540 oil sump heater pad IAW supplied instructions as a minor alteration. R&R #1,2, &3 intake tubes for access, reinstall using new gaskets. Operationally check good.<br>• Changed oil & filter, took sample for analysis. Inspected filter element media & suction screen for signs of abnormal contamination, none noted at this time. Serviced with Phillips X/C 20w50, ran up, leak check & operational check within normal factory parameters.<br><br>I certify that this Engine has been inspected in accordance with a 100 Hour Inspection and was determined to be in airworthy condition.<br><br>Thomas J. Gray<br>[redacted] A&P<br>[redacted] |

Porter's Aircraft Service
[redacted]
Stuart, Florida 34997
[redacted]

**Make:** LYCOMING
**Model:** IO-540-K1A5
**Tail:** N475RT
**S/N:** L-24411-48E

**Hours:** TACH 178.7, SMOH 186.7

Porter's Aircraft Service
[redacted]way W
[redacted]34997
[redacted]

**Make:** LYCOMING
**Model:** IO-540-K1A5
**Tail:** N475RT
**S/N:** L-24411-48E

**Hours:** TACH 178.7, SMOH 186.7
TTSN 6991.0

CW 100 HR IAW FAR 43 APPENDIX D, AND PIPER PA32-300 MM.
COMPRESSIONS; 1-6 ALL UPPER 70,S.
CHANGED OIL AND FILTER, SERVICED WITH 11 QTS OF PHILLIPS 20W50 AND CH48110 FILTER.
CLEANED AND GAP PLUGS.
CLEANED FUEL INJECTORS AND SCREENS.
CHECKED IDLE AND MIXTURE.
GROUND RUN OPS AND LEAK CHECK NORMAL.
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW AN 100 HR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. END.

[redacted]

JAMIE DESANTIAGO
AP[redacted]

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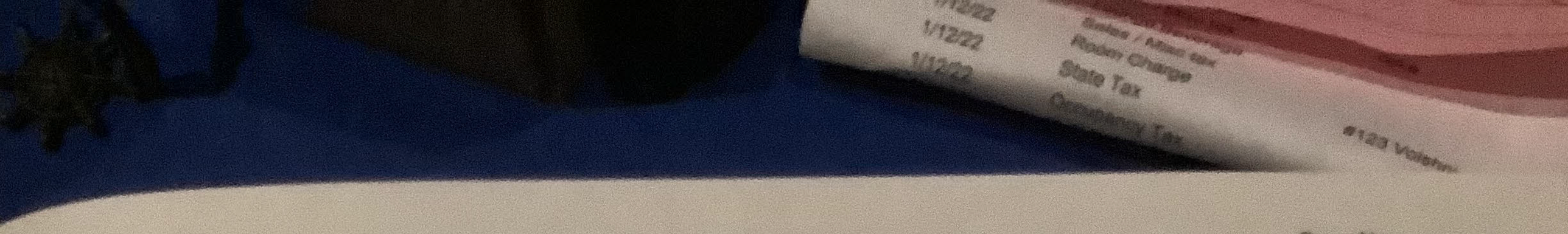


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Porter's Aircraft Service
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Make: Piper
Model: PA-32-300
Tail: N4758T
S/N: 32-7540028

Hours: TACH 188.3

R/R MAGNETO FOR IRAN BY TROPIC AIRPOWER.
IMPULSE COUPLING INSPECTION CW
SLICK MODEL 6361, SN 1108087/2.
INSTALLED AND TIMED TO ENGINE.
GROUND RUN OPS AND LEAK CHECK NORMAL.

[redacted]

DAVID G. PORTER
AP[redacted]