

Engine Record General Information

Manufacturer LYCOMING Model O-320-E2A
Serial L-24123-27A (10-10-68) Type Certificate 274
This engine is currently installed in aircraft N5514U
Minimum Octane Fuel 80/87 Oil Grade: Summer _____ Winter _____
Magneto Time _____ Point Setting _____ Firing Order _____

YEAR: 3/21/2017 N5514U Piper PA28-140 S/N 28-26226 and Lycoming O-320-E2A S/N L-24123-27A. Tach 4187.0 Engine removed for **MAJOR OVERHAUL**. Cases were pressure washed, dye checked and inspected. Sump and accessory cover were bead blasted, dye checked and inspected. Crankshaft was magnafluxed, inspected and polished. Connecting rods were magnafluxed, inspected, and re-cut and new bushings installed. Rocker arms were inspected and new bushings installed. Lifter bodies reconditioned. Cylinders were inspected, bead blasted, honed, replaced intake and exhaust guides and valve seats cut, new exhaust studs installed. The following new parts were installed: (4) Pistons P/N AEL-75413P010, (4) Ring sets P/N SL-3601SCP10, (4) Piston pins P/N SL13444-1, (1) Camshaft P/N LW-18840, (4) Intake valves P/N 73938, (4) Rocker shafts SL-13790, (8) Thrust buttons P/N SL-12892, (4) Exhaust valves P/N SL-19001A, (4) Outer valve springs P/N SL11800 and (4) Inner springs P/N SL-11795, (8) Valve cotters P/N MS13997-3, (8) Valve cotters P/N AEL60009, (4) Rotator caps P/N MS13998-3, (4) Intake valve guides P/N 60028P05, (4) Exhaust valve guides P/N SI-74230AP05, (1) Oil pump impeller kit P/N SL-18109A-S, (8) Connecting rod bolts P/N SL-78027, (8) Rod bolt nuts

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P/N SL12186, (1) Idler shaft P/N SL-13796, (8) Crankshaft bearings P/N SL-63763A, (8) Rod bearings P/N 18M26104, (2) Push rods P/N SL-73412, (16) 1/2" Cylinder nuts P/N STD-2090, (16) 3/8" Cylinder nuts P/N SL393-B, (4) Intake hoses P/N SL60603, (8) Exhaust studs P/N SL-31C-12, (1) Oil relief ball P/N SL-1028B, (1) Oil relief spring P/N SL-61084, (1) Oil return line P/N APS 68759, (1) Oil return line P/N APS 68760, (2) Oil return lines P/N APS 68761, (4) Oil return hoses P/N SL-STD-2180. (1) Overhaul gasket set P/N SL-69371-1. (1) Oil filter CH48110-1. (7) Quarts Aeroshell 80 mineral oil. Spark plugs were cleaned, rotated and installed with new M674 gaskets. Engine was assembled using all new nuts and bolts. All parts were painted Lycoming gray. Run-up and leak test OK. I certify that this engine has been overhauled IAW Lycoming overhaul manual and is approved for return to service.

Pete Trabold A&P 3492896 for Simsbury Aircraft Maintenance, LLC.

END

DATE	TIME	SERVICE	Facility. (See back pages for other specific entries.)
4-14-17	4195.3	8 hrs	Added 2 Qt's Aeroshell 80 mineral oil 6 1/2 total in engine - 8 hrs @ 2450 rpm Break-in 2450 RPM
5-11-17	41199.3	12 hrs	SMOH - Changed Aeroshell 80 mineral oil (7 Qt's) Add filter CH 48110-1 Break-in 2450 RPM

N5514U

28-26226

September 1, 2017

Tach: 4208.8

SMOH: 24.8

Inspect engine in accordance with Annual inspection checklist outlined in Piper Warrior Maintenance Manual section 5 and FAR 43 Appendix D. Compressions 76/80, 65/80, 76/80, 76/80. All AD's complied with at this time. Run up and leak check performed, all operational checks satisfactory. This engine has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.


Christopher S Carman AP28582361A

November 19, 2018 Tach: 4223.4

N5514U 28-26226

SMOH: 39.4

Inspect engine in accordance with Annual inspection checklist outlined in Piper Warrior Maintenance Manual and FAR 43 Appendix D. Compressions 75/80, 76/80, 76/80, 76/80. All AD's complied with at this time. Run up and leak check performed, all operational checks satisfactory. This engine has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.

Christopher S Carman AP28582361A 

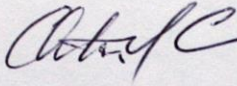
7/21/19	423248	Replaced AND Installed new oil filter CH 48110-1 Oil Changed - phillips 66 Multigrade 20150 - 7 Qts - Run / tested - no leaks - FRANK Lipuma # 328 7722
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December 5, 2018 Tach: 4238.2

N5514U 28-26226

SMOH: 54.2

Inspect engine in accordance with Annual inspection checklist outlined in Piper Warrior Maintenance Manual and FAR 43 Appendix D. Drain engine oil, replace filter with new 48-110 and fill with 7 quarts Phillips 20W50XC oil. Compressions 72/80, 72/80, 76/80, 72/80. All AD's complied with at this time. Run up and leak check performed, all operational checks satisfactory. This engine has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.

Christopher S Carman AP28582361A 

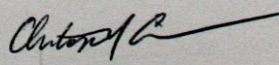
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December 20, 2020 Tach: 4246.4

N5514U 28-26226

SMOH: 62.4

Inspect engine in accordance with Annual inspection checklist outlined in Piper Warrior Maintenance Manual and FAR 43 Appendix D. Drain engine oil, replace filter with new 48-110 and fill with 7 quarts Phillips 20W50XC oil. Compressions 70/80, 72/80, 76/80, 72/80. All AD's complied with at this time. Run up and leak check performed, all operational checks satisfactory. This engine has been inspected in accordance with an Annual Inspection and has been found to be in airworthy condition.

Christopher S Carman AP28582361A 

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05/11/2022 N5514U S/N L-24123-27A Tach: 4261.7 SMOH 77.7

Engine inspected per FAR 43 appendix D. Washed engine. Drained oil, removed filter and oil suction screen. No metal noted. Serviced engine with 8 quarts of Phillips 20w50. Performed compression test, 1)76/80 2)74/80 3)79/80 4)75/80 Installed new Tempest 48110-2 oil filter. Installed (8) new Tempest UREM40E spark plugs. Checked magneto timing. Replaced oil filter adapter housing P/N 77852 (Donaldson Air-Maze P/N 204418-156) and gasket (P/N 06B23862). Replace intake hoses (P/N 69603) and intake gaskets (P/N 71973). Replaced all (4) rocker box cover gaskets with new silicone (P/N 06B26669). Installed new right forward exhaust pipe (AWI P/N A63726-04) and left forward pipe (AWI P/N A63726-02) with new exhaust gaskets (P/N 77611) and hardware. Replaced SCAT ducting as required. Installed new alternator belt (McFarlane P/N MC73965-015). Terminated AD 2017-14-04 by installing new type D oil cooler hoses (P/N AE3663161H0460). Updated AD listing. *Donna C. Snyder A+P 2120751 IA*

A/C REG. # N5514U DATE 05/11/2022
 TOTAL A/C TIME 4261.7 HRS TACH TIME 4261.7
 ENGINE 77.7 SMOH
 I CERTIFY THAT THIS A/C HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL 100 HR INSPECTION AS PER FAR 43 APP D AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

Donna C. Snyder A+P 2120751 IA
 SIGNATURE CERTIFICATE NO./TYPE

DATE		
N5514U - Engine Log	Piper PA-28-140	Serial# 28-26226
Owner:	Lycoming O-320-E2A Serial# L-24123-27A	Tach Time: 4299.19
Date: 6/1/2023		TSMOH = 115.19
Description of work:		
1. Removed propeller, and starter ring and reinstalled with timing marks positioned to indicate proper timing. Reinstalled propeller and safetied. Operational checked good. 2. Cleaned, gapped and tested spark plugs. Checked ignition timing. 3. Serviced engine with 7 quarts of Phillips XC 20W50 and new oil filter Tempest 48110-2. 4. Checked Engine compressions: #1 72/80, #2 72/80, #3 70/80, #4 70/80. Updated AD compliance list, current through 6/1/2023. Completed 100hr inspection this date in accordance to with FAR 43, Appendix D and approved maintenance/service manual check list. Checked operation of all systems and found to be ok. I certify this Engine and Propeller has been inspected IAW 100hr inspection and was determined to be in airworthy condition.		
Byron R Elley #2684731 A&P/IA <i>Byron R Elley</i>		

DATE			
N5514U - Propeller Log	Piper PA-28-140	Serial# 28-26226	
Owner:	Sensenich 74DM6-0-60	Tach Time: 4299.19	
Date: 6/1/2023	Serial# K29849	Aircraft Total Time: 4299.19	PTSMOH = 539.77
Description of work: Inspected propeller and Checked AD's Current through 6/1/2023. I certify that this Propeller has been inspected in accordance with a 100 hour inspection and was determined to be in airworthy condition. Byron R Elley #2684731 A&P/IA <i>R R Elley</i>			

01 JUL 24 TACH 4309.54 CLEANED AND GAPPED SPARK PLUGS CHECKED TIMING COMPRESSION #1 70/80 #2 76/80 #3 76/80 #4 76/80 ADS THROUGH 24-1A RUN UP, MAG CHECK LEAK CHECK OK
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE

YEAR: 2024 DATE	RECORDING TACH TIME	FLIGHT	TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				WITH AN ANNUAL/100HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION <i>Louis Trullinger</i> AP1284231IA
				7-28-24 TACH 4320.2 CHANGED OIL & FILTER SAFETIED FILTER SERVICED WITH 7 QTS PHILLIPS 20W50 X/C RUN UP LEAK CHECK OK <i>Louis Trullinger</i> AP1284231IA
				01 FEB 25 TACH 4345.23 CHANGED OIL & FILTER SAFETIED FILTER SERVICED WITH 7 QTS PHILLIP 20W50 X/C RUN UP LEAK CHECK OK <i>Louis Trullinger</i> AP1284231IA

YEAR: 2025 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
				05 JUL 2025 TACH 4363.46 CLEANED & GAPPED SPARK PLUGS CHECKED TIMING AND COMPRESSION #1 71/80 #2 76/80 #3 75/80 #4 76/80 ADS THROUGH 25-13 CHANGED OIL & FILTER SAFETIED FILTER SERVICED WITH 7 QTS PHILLIPS 20W50 RUN UP - MAG CHECK LEAK CHECK OK I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL/100HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION <i>Louis Trullinger</i> AP1284231IA