

Engine Record General Information

Manufacturer Lycoming **Model** 0-320 E2A
Serial L-27114-27A **Type Certificate** _____

Lycoming 0-320 E2A s/n L-27114-27A ENGINE TT Unknown SMOH 0
 November 3, 2007

Received this engine for major overhaul I.A.W. Lycoming overhaul manual 60294-7 engine disassembled and cleaned. All steel parts magnafluxed. All aluminum parts zyglowed. Crankshaft is standard mains and rods. Connecting rods re-bushed and installed with new rod bearings, bolts and nuts. Crankshaft gear re-worked as per S.B. 475F and installed with new bolt and lockplate. S.B. 505A checked okay. Complied with S.B. 530 and stamped P.I.D. On crankshaft flange and new plug installed. Crankcase cleaned and re-worked and assembled with new main bearings. Camshaft cleaned and inspected, installed with new lifter-bodies certified by CRS DD2R764K.

Cylinders are standard nitrided steel. New guides, exhaust seats and exhaust valves installed. Installed new Superior pistons with new rings, piston pins and rocker shafts. New SL18110 oil pump gears installed. Engine reassembled with new seals and gaskets. Magnetos overhauled by CRS HX2R888K. New harness installed.

I certify that this engine has been overhauled and inspected I.A.W. A 100-hour inspection and determined to be in an airworthy condition.

A/P 164763
William K. Harrison

November 3, 2007

AD	92-12-05	On piston pins N/A Superior pins installed
AD	96-09-10	Complied with on oil pump gears. New SL 1810 installed
AD	97-15-11	N/A by pin type
AD	98-02-04	Complied with on crankshaft. Meets requirements of S.B. 505A. Stamped P.I.D.
AD	98-17-11	N/A Crankshaft never ground
SB	240T	Complied with on 100% parts replacement
SB	475F	Complied with on crank gear inspected and modified
MSB	518C	Complied with. New thermal bypass valve.
SB	524	Complied with on oil pump gears.
SB	530	Complied with on coating crank bore.
MSB	555	Complied with on oil pump plug.

PARTS LIST

<u>Quantity</u>	<u>Part Number</u>	<u>Description</u>
8	LW-16711	STD Bearing
8	72877	Lifter Bodies
4	72091	O-Ring
2	72075	O-Ring
1	1028-B	Ball
1	STD-2213	Screw
1	LW-18639	Block Plate
1	STD-1211	Plug
1	76121	Tach Shaft
1	MS-16625-1081	Ring
8	69373	Standard Rod Bearings
8	78027	Bolt
8	LW-12186	Nut
4	SL-13444-1	Piston Pin
4	75413	Piston
4	SL-3601-SC	Ring Set
4	74230	STD Guide Exhaust
4	LW-19001	Exhaust Valve
8	MS-13997-3	Key
4	MS-13998-3	Cap
4	LW-13790	Rocker Shaft
8	LW-12892	Thrust Button
1	75944	Valve Assembly Oil Cooler Bypass
1	CH-48108-1	Oil Filter
1	SL69371-1	Gasket Set Major Overhaul

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DA1

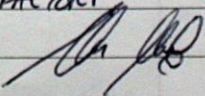
Reliable Aircraft Maintenance LLC

405-306-3494

August 25, 2015 TSMO: 0 Hobbs: 598.2 Tach: 1423.5 Lycoming O-320-E2A S/N L-27114-27A

Removed the existing engine and engine accessories. Inspected the motor mount and surrounding structure, no defects noted. Installed a customer supplied engine and engine accessories. Installed new engine mount isolators, and torqued to PA28-140 service manual requirements. Installed all ducting, baffling, hoses, and wiring. Serviced the engine with Aeroshell 100 Mineral Oil, and rotated the engine by hand till oil pressure was present on the aircraft oil gage. Installed a new oil cooler, and mechanical fuel pump. Set the mag timing to 25° BTDC per the engine data plate. Installed the prop and torqued to 25 Ft/Lbs. and set the alternator belt tension. Ran the engine to check for oil, fuel, and exhaust leaks, none were noted. Operated the engine IAW Lycoming SI 1427C for initial break in procedures and initial test flight requirements. Set the idle mixture and idle RPM for proper operation.

Brian Butler  A&P IA 2665413

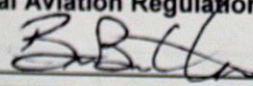
August 29 th 2015			POST ENGINE INSTALL FLIGHT TEST COMPLETED IN ACCORDANCE WITH SERVICE INSTRUCTION LYCOMING No: 1427C - ALL SATISFACTORY
Hobbs ending Tach line	601-3 1426-3		 Henneby 3698623

DATE



Registration:	N6720J	Model:	Piper 140	Date:	9-18-2015
Eng. TSMO:	26.0	Tach:	1449.5	Hobbs:	627.7

Drained the engine oil and removed the oil filter to inspect for contamination. Installed a new oil filter and serviced with Aeroshell 15W-50 oil. Changed the vacuum pump accessory drive seal with a new assembly. Inspected the engine for external leaks and security of all accessories. Ran the engine to check for leaks and normal operation. Performed a dynamic propeller balance, the final run was 0.04 IPS @ 10 degrees. I certify that the maintenance described above, has been accomplished in accordance with current Federal Aviation Regulations and is approved for Return to Service.

Brian Butler (2665413 A&P, IA) 



Registration:	N6702J	Model:	PA28-140	Date:	12-13-2015
Engine TTSMO	114.9	TTAF:	6623.0	Hobbs/Tach:	716.6 / 1524.9

Complied with an Annual/100hr. Inspection IAW the **Engine** manufactures Maintenance manual and all routine servicing required on the inspection guide. Hot compression check was as follows #1 73/80 #2 71/80 #3 72/80 #4 72/80. Removed the oil filter and cut open to check for contamination, none was noted. Installed a new Ch48103 filter and serviced the engine with 7 quarts Aeroshell 15-50 oil. A complete AD check was completed through todays date. No new ADs issued at this time. I certify that the maintenance described above, has been accomplished in accordance with Annual/100 hr. inspection and was found to be in an Airworthy condition.

Complied with the 100 hr. inspection IAW the **Propeller** manufactures service manual. Blended any nicks and painted the prop face. Checked tracking and security of the attach hardware. . I certify that the maintenance described above, has been accomplished in accordance with Annual/100 hr. inspection and was found to be in an Airworthy condition.

Brian Butler

A&P IA 266513



Registration:	N6702J	Model:	PA28-140	Date:	5-12-2016
Engine TTSMO	214.0	TTAF:	6722.1	Hobbs/Tach:	835.7 / 1624.0

Complied with an Annual/100hr. Inspection IAW the **Engine** manufactures Maintenance manual and all routine servicing required on the inspection guide. Hot compression check as follows #1 69/80 #2 68/80 #3 70/80 #4 68/80. Removed the oil filter and cut open to check for contamination, none was noted. Installed a new Ch48103 filter and serviced the engine with 7 quarts Aeroshell 15-50 oil. Removed the sparkplugs, cleaned, tested, spark checked, and installed with new gaskets. Replaced the air filter element BA3. Tightened a few oil drain back hoses due to oil leaks. A complete AD check was completed through todays date. No new ADs issued at this time. I certify that the maintenance described above, has been accomplished in accordance with Annual/100 hr. inspection and was found to be in an Airworthy condition.

Complied with the 100 hr. inspection IAW the **Propeller** manufactures service manual. Blended any nicks and painted the prop face. Checked tracking and security of the attach hardware. . I certify that the maintenance described above, has been accomplished in accordance with Annual/100 hr. inspection and was found to be in an Airworthy condition.

Brian Butler

A&P IA 266513

YEAR 20 <u>16</u> DATE	RECORDING TACH TIME	TODAY'S FLIGHT Hobbs	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.)
09/03/2016	1680.9	902.7	6779.0	Drained the engine oil and removed the oil filter. Installed a new oil filter and serviced with 7 quarts of Aeroshell 15w-50 oil. Ran the engine to check for leaks. Britton Lee PMA 3202288 ATP
	Engine TTSMO 270.9			



Registration:	N6702J	Model:	PA28-140	Date:	1-23-2017
Engine TTSMO	306.9 (Lyc O-320-E2A)	TTAF:	6815.0	Hobbs/Tach:	944.2 / 1716.9

Complied with an Annual/100hr. inspection IAW the Engine manufactures Maintenance manual and all routine servicing required on the inspection guide. Hot compression check as follows #1 75/80 #2 70/80 #3 70/80 #4 72/80. Removed the oil filter and cut open to check for contamination, none was noted. Installed a new Ch48103 filter and serviced the engine with 7 quarts Aeroshell 15-50 oil. Removed the sparkplugs, cleaned, tested, spark checked, and installed with new gaskets. Replaced the air filter element BA3. Changed the carb heat scat hose. Replaced the fuel hose from the engine driven pump to the carburetor, no leaks noted. Replaced the #1 and #3 valve cover gaskets. Tightened a few oil drain back hoses due to oil leaks. A complete AD check was completed through todays date. No new ADs issued at this time. I certify that the maintenance described above, has been accomplished in accordance with Annual/100 hr. inspection and was found to be in an Airworthy condition.

Complied with the 100 hr. inspection IAW the Propeller (Sensenich 74DM6) manufactures service manual. Blended any nicks and painted the prop face. Checked tracking and security of the attach hardware. . I certify that the maintenance described above, has been accomplished in accordance with Annual/100 hr. inspection and was found to be in an Airworthy condition.

Brian Butler

A&P IA 266513

YEAR 20 17 DATE 5/6	RECORDING TACH TIME	TODAY'S FLIGHT Hobbs	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.)
5/6/17	1765.9	1003.4	6,864 hrs	Drained engine oil and removed oil filter. Installed new oil filter and serviced with seven quarts of Aeroshell 15w-15 oil. Performed ops check and found no leaks. Britton C. Lee FAA 3202288 A+P
08/10/17	1810.2	1058.8	6,908.9	Engine TTSMD: 400.2 hrs Complied w/ 100hr inspection in reference to the engine manufactures MM and all routine servicing required on the inspection guide. Hot compressions are as follows: #1 72/80, #2 73/80, #3 71/80, #4 71/80. Removed oil filter and cut open to check for contamination; minimal carbon noted. Installed new Ch 48103 filter and serviced w/ 7 quarts of Aeroshell 15W-50 oil. Removed spark plugs, cleaned, gapped, tested, spark checked and installed w/ new gaskets. Timed mags. R+R exhaust; replaced w/ AWT exhaust P/Ns A99482-00, 99044-04, A99044-03, A63726-04, 63726-02, A62208-02, shroud clips, A63666-002, A14235-00(x3) TAW Piper Service manual, section VIII. A complete AD check was completed through today's date. 6 new ADs issued at AD 2017-14-04, oil hoses next due 1910.2, replacement Aug 2023 or tach 2423.5. Performed ops

YEAR 20 17 DATE	RECORDING TACH TIME	TODAY'S FLIGHT Hobbs	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.)
				check and found no leaks. I certify that the maintenance described above, has been accomplished in accordance of 100 hr inspection and was found to be in an Airworthy condition. Britton C. Lee FAA A+P 3202288
08/10/2017	1810.2	1058.8	6,908.9	Complied w/ the 100 hr inspection in reference to Propeller (Sensenich 74DM6) manufactures SM. Blended wicks. Checked tracking and security of attach hardware. A complete AD check was completed through today's date. I certify that the maintenance described above, has been accomplished in accordance w/ a 100hr inspection and found to be in an Airworthy condition. Britton C. Lee FAA A+P 3202288



Registration:	N6702J	Model:	PA28-140	Date:	2-9-2018
Engine TTSMO	306.9 (Lyc O-320-E2A)	TTAF:	7005.8	Hobbs/Tach:	1178.6/1907.1

Complied with an Annual/100hr. Inspection IAW the **Engine** manufacture's Maintenance manual and all routine servicing required on the inspection guide. Hot compression check as follows #1 74/80 #2 70/80 #3 74/80 #4 72/80. Removed the oil filter and cut open to check for contamination, none was noted. Installed a new Ch48103 filter and serviced the engine with 7 quarts Aeroshell 15-50 oil. Removed the sparkplugs, cleaned, tested, spark checked, replaced two spark plugs with Temptest UREM40E, and installed with new gaskets. Tightened a few oil drain back hoses due to oil leaks. A complete AD check was completed through todays date. No new ADs issued at this time. I certify that the maintenance described above, has been accomplished in accordance with Annual/100 hr. inspection and was found to be in an Airworthy condition.

Complied with the 100 hr. inspection IAW the **Propeller (Sensenich 74DM6)** manufactures service manual. Blended any nicks, Checked tracking and security of the attach hardware. I certify that the maintenance described above, has been accomplished in accordance with Annual/100 hr. inspection and was found to be in an Airworthy condition.

Brian Butler

A&P IA 266513

1 YEAR 20 18 2 DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Entries must be endorsed with name, rating Technician or Repair Facility. (See back pages for other specific entries.)	20 DATE
04/17/18	1959.0	Hobbs: 1245.0 TT: 7057.7	TT: 7057.7	Drained engine oil, removed and cut open oil filter. Minimal carbon noted. Installed new Ch48103 filter and serviced engine with seven quarts of Aeroshell 15w-50 oil. Britton Lee P&A Co 3202288 A+P	
13 Jun 2018 TTSMO Engine TT	Tach: 2002.6 TT: 482.4	Hobbs: 1245.8 TT: 592.6 hrs	TT: 7,101.3	Completed the 100 hour inspection in reference to engine manufactures MM and all routine servicing required on the inspection guide. Hot compressions are as follows: #1 74/80, #2 75/80, #3 74/80, #4 71/80. Removed and cut open oil filter to check for contamination; minimal carbon noted. Installed new Temptest 48103-2 oil filter and serviced with 7 quarts of Aeroshell 15w-50. Removed spark plugs. Cleaned, gapped, tested spark plugs and installed with new gaskets. Checked and timed mag. A complete AD check was completed through today's date. Performed ops check + found no leaks. I certify that the maintenance described above has been accomplished in accordance of 100 hour inspection + was found to be in Airworthy condition. Britton Lee P&A Co 3202288 A+P	21
3 Jun 2018	Tach: 2002.6	Hobbs: 1245.8	TT: 7,101.3	Complied with the 100hr inspection in reference the propeller (Sensenich 74DM6) manufactures SM. Blended	

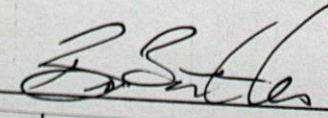
DATE	TIME				
					nicks. Checked security of attach hardware and blade tracking. A complete AD check was completed through today's date. I certify that the maintenance described above, has been accomplished in accordance with 100 hr inspection and found to be in an Airworthy condition. Britton Lee FAA 3202298 A+P
27th 2018	Tach: 2055.0 Engine T.O: 645	Hobbs: 1360.9	T.O: 7,153.7		Drained engine oil. Installed new Ch 48103 Filter and serviced engine with seven quarts of Aeroshell 15w-50 oil Britton Lee FAA 3202298 A+P



Registration:	N6702J	Model:	PA28-140	Date:	1-19-2019
Engine TTSMO	833.9 (Lyc O-320-E2A)	TTAF:	7194.7	Hobbs/Tach:	1411.8/2096.0

Complied with an Annual/100hr. Inspection IAW the Engine manufacture's Maintenance manual and all routine servicing required on the inspection guide. Cold compression check as follows #1 77/80 #2 73/80 #3 74/80 #4 73/80. Removed the oil filter and cut open to check for contamination, none was noted. Installed a new Ch48103-2 filter and serviced the engine with 7 quarts Aeroshell 15-50 oil. Removed the sparkplugs; cleaned, tested, spark checked, and installed with new gaskets. Replaced all four oil drain back hoses (P/N 08-12031) due to oil leaks. Checked mag timing. Replaced #4 cylinder valve cover gasket. A complete AD check was completed through today's date. No new ADs issued at this time. I certify that the maintenance described above, has been accomplished in accordance with Annual/100 hr. inspection and was found to be in an Airworthy condition.

Complied with the 100 hr. inspection IAW the Propeller (Sensenich 74DM6) manufactures service manual. Blended any nicks, Checked and security of the attach hardware and preformed dynamic propeller balance. I certify that the maintenance described above, has been accomplished in accordance with Annual/100 hr. inspection and was found to be in an Airworthy condition.

Brian Butler  A&P IA 266513

DATE	TIME	SERVICE	TECHNICIAN
Feb/21/2020	Hobbs: 1454.3 TAKE TIME 2130.3		N 6720 J
<p>Complied with an Annual / 100hr Inspection IAW the engine Maintenance manual. Compression and as follows: #1 70/80 #2 74/80 #3 76/80 #4 72/80 changed oil and filter, oil Filter AA-48103-2 and added 7 quarts Acroschel 15w 50, removed and replaced Air Filter BA-15, cleaned gapped and tested plugs replaced 4 plugs 4 ceramic cleaned fuel screens. I certify that this engine has been inspected in accordance with an Annual Inspection/100hr and was found to be in an Airworthy condition.</p> <p>Greg Butler GREG BUTLER AP00307525 IA</p>			

DATE	TIME	SERVICE	TECHNICIAN
APRIL/3/2021	Hobbs: 1478.9		N 6720 J
<p>Complied with an annual / 100hr Inspection IAW the engine Maintenance manual compression as follows: #1 70/80 #2 72/80 #3 72/80 #4 71/80 changed oil and filter, oil AA 48103-2 and 7 quarts of Acroschel 15w 50 removed and replaced Air Filter BA-15 cleaned gapped and tested plugs replaced 4 plug gaskets cleaned all screens. I certify that this engine has been inspected with an Annual inspection in accordance with annual Inspection/100hr and was found to be in an Airworthy condition.</p> <p>Greg Butler GREG BUTLER AP 00307525 IA</p>			

July 25, 2022 Piper Cherokee N6720J SN 28-24424 / Tach Time: 2167.1/
Total time: 7,282.7/ Hobbs: 1499.8/ TTSMOH: 905.0 (by tach time) Cold
Compression Check #1 70/80 #2 72/80 #3 70/80 #4 74/80. Drained oil and
filter, cut open filter no metal found at this time. Installed New AA48103-2
oil filter, and serviced with 7Qrts aero shell 15W50. Cleaned fuel screens
and oil screens. Replaced #2 and #4 Cylinder valve cover gaskets with new
silicone gaskets. Cleaned and checked spark plugs, installed new copper
gaskets on plugs and retated plugs. Washed engine and test run okay.
Checked recurring ADS thru Bi-weekly this date. I certify that this engine
has been inspected IAW An 100 Hour inspection and was found to be in an
airworthy condition at this time.

Scotty Butler  A&P 3021434

July 25, 2022 Piper Cherokee N6720J SN 28-24424 / Tach Time: 2167.1/
Total time: 7,282.7/ Hobbs: 1499.8/ TTSMOH: UNK.

Checked recurring ADS thru Bi-weekly this date. I certify that this Propeller
has been inspected IAW An 100 Hour inspection and was found to be in an
airworthy condition at this time.

Scotty Butler  A&P 3021434

September 3, 2023 Piper Cherokee N6720J SN 28-24424 / Tach Time: 2189.6/ Total time: 7,305.2/ Hobbs: 1527.3/ TTSMOH: 927.5 (by tach time) Cold Compression Check #1 70/80 #2 70/80 #3 70/80 #4 74/80. Drained oil and filter, cut open filter no metal found at this time. Installed New AA48110-2 oil filter, and serviced with 7Qrts Phillip's 20w50. Cleaned fuel screens and oil screens. Cleaned and checked spark plugs, installed new copper gaskets on plugs and rotated plugs. Replaced all engine hoses firewall forward with precision hose kit. Washed engine and test run okay. Checked recurring ADS thru Bi-weekly this date. I certify that this engine has been inspected IAW an 100 Hour inspection and was found to be in an airworthy condition at this time.

Scotty Butler  A&P 3021434

September 3, 2023 Piper Cherokee N6720J SN 28-24424 / Tach Time: 2189.6/ Total time: 7,305.2/ Hobbs: 1527.3/ TTSMOH: UNK.

Checked recurring ADS thru Bi-weekly this date. I certify that this Propeller has been inspected IAW An 100 Hour inspection and was found to be in an airworthy condition at this time.

Scotty Butler  A&P 3021434

10/26/24 PA28-140 N6720J SN 28-24424 Tach Time: 2,209.7
Hobbs: 1,551.8 TTSMOH: 947.6

Cold Compression: #1, 70/ #2, 71/ #3, 70, #4 73. Drained oil and cut open filter no metal found at this time. Installed new AA 48103-2 filter. 7 qrts Aeroshell 20W-50Xc. cleaned screens, checked and rotated spark plugs. Changed air filter w/new BA-3. Tighten up all oil drain back hoses and induction hoses clamps. Washed engine test run okay. Checked AD's thru bi-weekly this date.


I certify that this Engine has been inspected IAW a 100 HR. inspection and was found to be in an airworthy condition at this time.

Scotty Butler  A&P 3021434

10/26/24 PA28-140 N6720J SN 28-24424 Tach Time: 2,209.7
Hobbs: 1,551.8 TTSMOH: UNK.

Checked AD's thru bi-weekly this date.

I certify that this Propeller has been inspected IAW a 100 HR. inspection and was found to be in an airworthy condition at this time.

Scotty Butler  A&P 3021434