

# ENGINE MAINTENANCE RECORDS



Shipping Address: 2505 W. Broadway, Collinsville, OK 74021 ■ Mailing Address: P.O. Box 582453, Tulsa, OK 74158-2453  
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FAA Certified Repair Station IAXR223L

# **LIMITED WARRANTY**

To:	<b>Chad Tremie</b>	Aircraft:	<b>Cessna 172M</b>
Model:	<b>O-320-E2D</b>	Registration:	<b>N80286</b>
Serial Number:	<b>L-22162-27A</b>	Tach or Hobbs:	
Work Order:	<b>819110</b>	Date of Overhaul:	<b>10-10-2019</b>

AMERICA'S AIRCRAFT ENGINES, INC. warrants this engine to be free from defects in materials and workmanship by America's Aircraft Engines, Inc. for TWENTY-FOUR (24) months or 1000 hours, whichever occurs first. Accessories will be warranted by respective vendors.

This engine, excluding accessories, is further warranted to be free from defects in materials furnished by America's Aircraft Engine's, Inc. until T.B.O. on a pro-rated basis on parts. For the purpose of calculating pro-ration, a minimum of 40 hours per month from the date of overhaul will apply. Replacement or repair of engine, component, or parts under this Limited Warranty will not extend the warranty period. Installation or removal costs are excluded under pro-rated portion. Cracked cylinders and cracked crankcases excluded from all warranty unless it can be determined that they are a direct result of improper assembly.

To exercise this Limited Warranty, America's Aircraft Engines, Inc. must be promptly notified of the discovery of any defect or failure by call or letter fully describing such defect or failure to:

America's Aircraft Engines, Inc.  
PO Box 582453, Tulsa, OK 74158  
918-371-3000

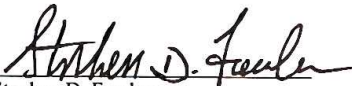
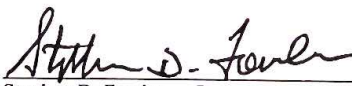
All warranty work is to be accomplished in Collinsville, Oklahoma by America's Aircraft Engines, Inc. unless approval is granted in writing by America's Aircraft Engines, Inc. for work to be accomplished elsewhere or by anyone else, prior to commencement of such work. America's Aircraft Engines, Inc. reserves the right to furnish any or all parts thereof.

America's Aircraft Engines, Inc. is not responsible for any consequential loss associated with any failure or defect under this Limited Warranty and no allowance will be made for down time, loss of use, hotel, freight, transportation or any other incidental expense directly or indirectly associated with such defect or failure.

This Limited Warranty is expressly in lieu of all warranties and representations, expressed or implied in fact or by law including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. The work to which this Limited Warranty applies is deemed to have been accomplished in Collinsville, Oklahoma and in the event of a dispute on this Limited Warranty, the laws of the State of Oklahoma shall apply and any litigation shall be maintained only in the State of Oklahoma in a court of Competent Jurisdiction.

This Limited Warranty gives you specific rights and may be transferred only by express permission in writing by America's Aircraft Engines, Inc.

*Stephen D. Faul*

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
				<b>TOTALS</b> brought forward from previous page
				<p>MAKE <b>Lycoming</b> MODEL <b>O-320-E2D</b></p> <p>SERIAL # <b>L-22162-27A</b> DATE <b>10-10-2019</b></p> <p>TIME SMOH <b>0.0</b> TOTAL TIME <b>6035.1</b></p> <p>America's Aircraft Engines, Inc. certifies that this engine has been disassembled, overhauled and tested in accordance with recommended procedures and all clearances and tolerances are within specified limits. Procedures and limits used are as contained in engine manufacturers overhaul manual number <b>60294-7</b>.</p> <p>America's Aircraft Engines, Inc. certifies the engine identified above was overhauled and inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Following A.D.'s complied with <b>SEE NOTES</b>.</p> <p>Pertinent details of the overhaul are on file at America's Aircraft Engines, Inc. work order number <b>819110</b>.</p> <p>Signed  For America's Aircraft Engines, Inc. Stephen D. Fowler PO Box 582453 Tulsa, OK 74158</p> <p>FORM AAE 101 CERTIFIED REPAIR STATION NO. IAXR223L</p> <p>LYCOMING O-320-E2D S/N: L-22162-27A W/O #: 819110 A.D. NOTES 10-10-2019</p> <p>A.D. 55-02-02 N/A BY SERIAL NUMBER. A.D. 59-10-07 N/A AFFECTED BAFFLE CLAMPS NOT INSTALLED. A.D. 63-23-02 AMD 39-627 N/A AFFECTED VALVES NOT INSTALLED. A.D. 64-16-05 AMD 765 N/A AFFECTED FUEL PUMP NOT INSTALLED. A.D. 66-20-04 AMD 39-277 N/A AFFECTED OIL FILTER NOT INSTALLED. A.D. 73-23-01 AMD 39-2804 N/A AFFECTED PISTON PINS NOT INSTALLED. A.D. 75-08-09 AMD 39-3013 N/A AFFECTED IMPELLERS NOT INSTALLED. A.D. 87-10-06 R1 AMD 39-6293 N/A AFFECTED ROCKER ARMS NOT INSTALLED. A.D. 90-04-06 R1 AMD 39-6915 N/A NO PROP GOVERNOR LINE INSTALLED. A.D. 92-12-05 AMD 39-8265 N/A AFFECTED PISTON PINS NOT INSTALLED. A.D. 93-11-11 AMD 39-8584 N/A AFFECTED FUEL PUMP NOT INSTALLED. A.D. 95-26-02 AMD 39-9460 NO SIGN OF LOW OCTANE DAMAGE AT TEARDOWN. A.D. 96-09-10 AMD 39-9586 N/A AFFECTED IMPELLERS NOT INSTALLED. A.D. 97-15-11 AMD 39-10085 N/A AFFECTED PISTON PINS NOT INSTALLED. A.D. 98-02-08 AMD 39-10291 C/W BY AIRCRAFT SPECIALTIES INC. A.D. 98-17-11 AMD 39-10713 N/A AFFECTED CRANKSHAFT NOT INSTALLED. A.D. 2004-10-14 AMD 39-13644 N/A NOT A PROP STRIKE. NEW BOLT INSTALLED. A.D. 2006-12-07 AMD 39-14632 N/A AFFECTED CYLINDERS NOT INSTALLED. A.D. 2009-26-12 AMD 39-16151 N/A AFFECTED CYLINDERS NOT INSTALLED. A.D. 2012-03-07 AMD 39-16948 N/A AFFECTED CARBURETOR NOT INSTALLED. A.D. 2017-16-11 AMD 39-18988 N/A AFFECTED ROD BUSHINGS NOT INSTALLED.</p> <p> Stephen D. Fowler P 477629769</p>
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				<b>TOTALS</b> -Carry forward to next page



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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
12-2-19				TOTALS brought forward from previous page
	1611.1			12-2-19 ACTT: 1611.1 Removed and Replaced both upper engine mounts R/H & L/H P/N J-9615-49 Installed new mounts P/N J-9615-49 IAW Cessna 172-M Service manual chapter 11 found serviceable & determined airworthiness. John Doherty AWP357Z006
12-5-19	1614.1			12-5-19 ACTT: 1614.1 Removed & Replaced Right hand magneto - Due To INOP FUNCTION check model # 4370 Serial# 39040173. Installed a Serviceable Right hand magneto part# 4370 Serial # 18061271 TSO-φ Timed both the Left & Right magnetos. Performed a ground run/function test No defects noted / Leaks work Done IAW Lycoming operations manual O-320 Section 5 John Doherty AWP357Z006
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## Beard's Aircraft Services, LLC

9852 Robinson Road  
Bell City, LA 70630

NG WORK

6/26/2020 Reg.# N80286 Cessna 172M

Textron Lycoming Engines

Engine Total Time 6165.9 SMOH: 418.3 O-320-E2D Eng. Serial # L-22162-27A

Completed 100hr inspection this date in accordance with 14 CFR Part 43 Appendix D, and O-320 inspection checklist. Owner reports a hard to start engine hot or cold. Removed both magnetos and checked and re-set E-gap. LH magneto was way off. Installed the magnetos using new gaskets. Synchronized magnetos to 25° BTC. Cylinder differential compression (IAW Lycoming Service Instruction No. 1191A) test as follows; #1 78/80; #2 78/80; #3 75/80; #4 79/80. Borescope inspection revealed no apparent defects. Installed a new oil filter and serviced the engine with 8 quarts Aeroshell W100 Plus oil. Engine test run shows no leaks and normal operation. Engine now starts promptly, no need to adjust any other settings. All applicable AD's are in compliance. Refer to AD compliance report in aircraft record for current status of applicable AD's.

I CERTIFY this ENGINE has been inspected in accordance with a 100 HOUR inspection and was determined to be in AIRWORTHY condition.

*[Signature]* A+P 3247387 6/26/2020  
Bruce A. Beard - A&P 3247387 6/26/2020

Bruce A. Beard, Owner-A&amp;P/IA

Phone/Fax: 337-598-4773, Mobile: 337-515-5643 Email: brucebeard@wb4me.com

West Aircraft Maintenance  
280 Gardner Dr  
New Century KS 66031  
1913/0245/0

Make: Lycoming  
Model: O-320-D3G  
Tail: N210/E  
S/N: L-22162-27A

Hours: Tach: 2058.2 EngTT: 6165.9 SMOH: 418.3

Converted this O-320-E2D to an O-320-D3G IAW TCDS, installed serviceable prop flange bushings 5x p/n 72066-s; 1x p/n 72067-s, installed p/n 23d26777 fuel pump plunger, stamped letter "C" at suffix of engine s/n to indicate model conversion IAW Lycoming SB 1304J. This engine was installed on N210/E, IAW AMM 761-539. Replaced Vac. pump with serviceable p/n 215cc s/n 285719, installed serviceable engine driven fuel pump p/n 6441271, installed serviceable alternator p/n 4111810 s/n A167565, removed #1 cylinder and installed serviceable cylinder assembly p/n, performed an annual inspection IAW FAR 43 appendix D. Compressions 1: 72/80 2: 74/80 3: 78/80 4: 76/80 I certify this engine has been inspected IAW an annual inspection and has been determined to be in an airworthy condition.

Signed: *[Signature]*  
Name: Adam Piepke

Cert: 3965513 IA  
Date: 10/12/2021

West Aircraft Maintenance  
280 Gardner Dr  
New Century KS 66031  
1913/0245/0

Make: Piper  
Model: PA-28-161  
Tail: N210/E  
S/N: 28-7916162

Hours: Tach: 2089.6 EngTT: 6197.3 SMOH: 449.7

Completed 100 hour inspection IAW FAR 43 Appendix D referencing PA-28-161 AMM 100 hour inspection report. No AD's found due. Drained engine oil. Removed, cut open, and inspected oil filter element and installed new filter element p/n CH48110-1. Added 7 qts Type M 20W50 mineral oil. Removed and replaced all cylinders with overhauled p/n LW12416 N1 using (4) Superior gasket sets p/n SL12032-SC, placed maintenance release forms in a/c perm records. Differential compression check on new cylinders as follows: 79, 79, 79, 79/80. All work done IAW PA-28-161 AMM and Lycoming O-320 OH manual. Engine ops/leak check completed. I certify this engine has been inspected in accordance with a 100 hour inspection and determined to be in airworthy condition.

Signed: *[Signature]*  
Name: Justin Pale

Cert: Mechanic: 4391662 AP  
Date: 12/27/2021

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

Signed: *[Signature]*  
Name: Adam Piepke

Cert: Mechanic: 3965513 AP  
IA  
Date: 12/27/2021

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West Aircraft Maintenance  
280 Gardner Dr  
New Century KS 66031  
19137024570

Make: Lycoming  
Model: O-320-D3G  
Tail: N2107E  
S/N: L-22162-27A

DATE

Hours: Tach: 2138.0

Drained engine oil and added 6 qts X/C20W50 IAW PA-28-161 AMM. Ops/leak check completed.

Signed:   
Name: Justin Pate

Cert: Mechanic: 4391662 AP  
Date: 01/18/2022



West Aircraft Maintenance  
280 Gardner Dr  
New Century KS 66031  
19137024570

Make: Lycoming  
Model: O-320-D3G  
Tail: N2107E  
S/N: L-22162-27A

Hours: Tach: 2188.4 EngTT: 6296.1 SMOH: 548.5

Completed 100 hour inspection IAW FAR 43 Appendix D referencing PA-28-161 AMM.

1. No AD's found due
2. Differential compression test as follows: 79, 80, 80, 80/80
3. Serviced engine w/ 7 qts X/C20W50
4. Replaced engine oil filter element p/n CH48110-1

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

Nathaniel Griffith  4457220 A

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

Signed:   
Name: Adam Piepke

Cert: Mechanic: 3965513 AP  
IA  
Date: 02/10/2022



West Aircraft Maintenance  
280 Gardner Dr  
New Century KS 66031  
19137024570

Make: Piper  
Model: PA-28-161  
Tail: N2107E  
S/N: 28-7916162

Hours: EngTT: 6388.3 Tach: 2280.6

Completed 100 hour inspection IAW FAR 43 Appendix D referencing PA-28-161 AMM. Differential compression test 1-80/80 2-80/80 3-80/80 4-80/80. Removed/Inspected/Replaced Oil Filter P/N CH48110-1, no metal found. Removed/Inspected/Replaced oil P/N XC 20W-50 w/7 qts. No AD's found due at this time. Operations check OK, I certify that this engine has been inspected in accordance with a 100 hour inspection and determined to be in airworthy condition.

Signed:   
Name: Adam Piepke

Cert: Mechanic: 3965513 AP  
IA  
Date: 03/24/2022



West Aircraft Maintenance  
280 Gardner Dr  
New Century KS 66031  
19137024570

Make: Piper  
Model: PA-28-161  
Tail: N2107E  
S/N: 28-7916162

Hours: Tach: 2358.8 EngineTT: 6466.5 SMOH: 718.9

Completed 100 hour inspection IAW FAR 43 Appendix D referencing PA-28-161 AMM. Differential compression test 1-80/80 2-80/80 3-80/80 4-80/80. Removed/Inspected/Replaced Oil Filter P/N CH48110-1, no metal found. Removed/Inspected/Replaced oil P/N XC 20W-50 w/7 qts. Stop drilled crack in cooling fin of Cylinder #4 by CH11 probe. No AD's found due at this time. Operations check OK. I certify that this engine has been inspected in accordance with a 100 hour inspection and determined to be in airworthy condition.

Signed:   
Name: Adam Piepke

Cert: Mechanic: 3965513 AP  
IA  
Date: 05/05/2022

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West Aircraft Maintenance  
280 Gardner Dr  
New Century KS 66031  
19137024570

Make: Piper  
Model: PA-28-161  
Tail: N2107L  
S/N: 28-7916162

FORMING WORK

Hours: AC 7126.5 TT 2443.2 EngTT: 6550.9 PropTT: 3548.3 Hobbs Misc.

Performed a 100 hour inspection IAW FAR 43 app. D and piper amm as guide. no applicable AD's due. Compressions: 1: 79/80 2: 80/80 3: 80/80 4: 80/80. removed oil filter, cut open, no metal found. drained sump. installed new filter p/n ch48110-1, and serviced sump with 7 qts. of x/c 20w50. replaced LH #4 bottom ignition lead using kit p/n M6202-60 I certify this engine has been inspected IAW a 100 hour inspection and has been determined to be in an airworthy condition

Signed:

Name: Adam Baker

Cert: Mechanic: 4638550 P

Date: 06/09/2022



West Aircraft Maintenance  
280 Gardner Dr  
New Century KS 66031  
19137024570

Make: Piper  
Model: PA-28-161  
Tail: N2107E  
S/N: 28-7916162

Hours: AC TT: 2496.4 EngTT: PropTT: Hobbs Misc.

Removed #1 cylinder and piston assy' replaced #1 and #2 connecting rod assy's p/n 78030 ASI 8130-3 # 270500 and 273502 w/ bearing p/ns sl61662a 0 replaced #1 cylinder assy' with repaired o-320 cylinder assy' w/ new piston p/n sl75089a, and 5401-sc rings work done IAW lycoming direct drive manual

Signed:

Name: Adam Piepke

Cert: Mechanic: 3965513 AP  
IA

Date: 06/30/2022



West Aircraft Maintenance  
280 Gardner Dr  
New Century KS 66031  
19137024570

Make: Piper  
Model: PA-28-161  
Tail: N2107E  
S/N: 28-7916162

Hours: AC: 7225.4 TT: 25420 EngTT: SMOH 902.1 tt.6649.7 PropTT: 3647.1 Hobbs: Misc:

Performed a 100 hour inspection IAW FAR 43 app. D and piper amm as guide. no applicable AD's due. Compressions: 1: 76/80 2: 79/80 3: 80/80 4: 78/80. removed oil filter, cut open, no metal found. drained sump. installed new filter p/n ch48110-1, and serviced sump with 7 qts. of x/c 20w50. I certify this engine has been inspected IAW a 100 hour inspection and has been determined to be in an airworthy condition

Signed:

Name: Adam Piepke

Cert: Mechanic: 3965513 AP  
IA

Date: 07/15/2022



West Aircraft Maintenance  
280 Gardner Dr  
New Century KS 66031  
19137021570

Make: Piper  
Model: PA-28-161  
Tail: N2107L  
S/N: 28-7916162

Hours: AC: 7287.4 TT: 2604.0 EngTT: PropTT: Hobbs Misc:


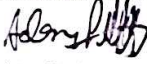


Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper pa-28-161 AMM. No applicable AD's due at this time. Compressions 1: 56/80 2: 80/80 3: 77/80 4: 32/80. Replaced cylinder #1 and #4 with serviceable cylinder IAW Lycoming direct drive manual. After cylinder replacement compressions corrected to 1: 80/80 4: 77/80. Drained oil sump removed and cut open filter. No metal found. Replaced oil filter with P/N AA48110-2 and serviced sump with 7qts of X/C 20W50. I certify that this engine has been inspected IAW a 100 HR inspection and has been determined to be in an airworthy condition.

Signed:

Name: Adam Piepke


Cert: Mechanic: 3965513 AP  
IA

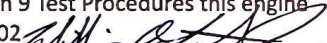
Date: 08/12/2022

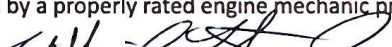
DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				<b>TOTALS</b> brought forward from previous page
				<p><b>WEST</b> West Aircraft Maintenance 280 Gardner Dr New Century KS 66031 9137024570</p> <p><b>Make:</b> Piper <b>Model:</b> PA-28-161 <b>Tail:</b> N2107E <b>S/N:</b> 28-7916162</p> <p><b>Hours:</b> AC: TT: 2657.6 EngTT: PropTT: Hobbs: Misc:</p> <p>Replaced ignition harness with serviceable harness after replacing bottom cylinder #3 lower lead P/N M6275 IAW L-1499B ignition lead assembly and maintenance manual</p> <p><b>Signed:</b>  <b>Name:</b> Logan Baker</p> <p><b>Cert:</b> Mechanic: 4638550 P <b>Date:</b> 08/29/2022</p>
				<p><b>WEST</b> West Aircraft Maintenance 280 Gardner Dr New Century KS 66031 9137024570</p> <p><b>Make:</b> Piper <b>Model:</b> PA-28-161 <b>Tail:</b> N2107E <b>S/N:</b> 28-7916162</p> <p><b>Hours:</b> AC: 7366.5 TT: 2683.1 SMOH: 1043.2 IL6790.8 PropTT: 3798.2</p> <p>Performed a 100 hour inspection IAW FAR 43 app. D and piper amm as guide. no applicable AD's due. Compressions 1: 80/80 2: 79/80 3: 76/80 4: 78/80 removed oil filter, cut open, no metal found, drained sump, installed new filler p/n ch48110-1, and serviced sump with 7 qts. of x/c 20W50. I certify this engine has been inspected IAW a 100 hour inspection and has been determined to be in an airworthy condition</p> <p><b>Signed:</b>  <b>Name:</b> Adam Piepre</p> <p><b>Cert:</b> Mechanic: 3965513 AP IA <b>Date:</b> 07/15/2022</p>
				<p><b>WEST</b> West Aircraft Maintenance 280 Gardner Dr New Century KS 66031 9137024570</p> <p><b>Make:</b> Piper <b>Model:</b> PA-28-161 <b>Tail:</b> N2107E <b>S/N:</b> 28-7916162</p> <p><b>Hours:</b> AC: 7367.4 TT: 2684.1 EngTT: 6791.7 SMOH: 1044.1 PropTT: 3789.1 Hobbs: Misc:</p> <p>Completed 100 HR inspection IAW FAR 43 app.D with reference to Piper PA-28-161 AMM. Compressions 1: 80/80 2: 79/80 3: 76/80 4: 78/80 No applicable AD's due at this time. Drained oil sump, removed and cut open oil filter. No metal found. Replaced oil filter P/N AA48110-2 and serviced sump with 7qts of 20W50 Victory. Found leaking #1 cyl valve cover. Replaced valve cover gasket with P/N SI 75906. I certify that this engine has been inspected IAW a 100 HR inspection and has been determined to be in an airworthy condition.</p> <p><b>Signed:</b>  <b>Name:</b> Logan Baker</p> <p><b>Cert:</b> Mechanic: 4638550 P <b>Date:</b> 09/13/2022</p>
				<p><b>WEST</b> West Aircraft Maintenance 280 Gardner Dr New Century KS 66031 9137024570</p> <p><b>Make:</b> Piper <b>Model:</b> PA-28-161 <b>Tail:</b> N2107E <b>S/N:</b> 28-7916162</p> <p><b>Hours:</b> AC: 7453 TT: 2769.7 EngTT: 6877.3 SMOH: 1129.7 PropTT: 3874.7 Hobbs: Misc:</p> <p>Completed 100 HR inspection IAW FAR 43 app.D with reference to Piper PA-28-161 AMM. Compressions 1 80/80 2 72/80 3 78/80 4 76/80 No applicable AD's due at this time. Drained engine oil, removed and cut open oil filter. No metal found. Replaced oil filter P/N AA48110-2. Added 7qts of Phillips Victory 20W50 engine oil. I certify that this engine has been inspected IAW a 100 HR inspection and has been determined to be in an airworthy condition.</p> <p><b>Signed:</b>  <b>Name:</b> Logan Baker</p> <p><b>Cert:</b> Mechanic: 4638550 P <b>Date:</b> 10/05/2022</p>
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WORK

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
<b>TOTALS brought forward from previous page</b>				
<b>WEST</b> West Aircraft Maintenance 280 Gardner Dr New Century KS 66031 9137024570				Make: Piper Model: PA-28-161 Tail: N2107E S/N: 28-7916162
<b>Hours:</b> AC 7.532 3 TT 2.851 2 EngT 6.956 6 SMOH 1.211 0 PropTT 3.953 3 Hcbs: 1580 7 Misc				
Completed 100 HR inspection IAW FAR 43 app D with reference to Piper PA-28-161 AMM. Compression 1 / 9.80 2 / 9.80 3 / 9.80 4 / 9.80. No applicable AD's due at this time. Drained engine oil removed and cut open oil filter. No metal found. Replaced oil filter P/N AA46110-2. Added 7 qts of Phillips X-C 20W50 engine oil. Replaced Valve cover gasket P/N SL75906. I certify that this engine has been inspected IAW a 100 HR inspection and has been determined to be in airworthy condition.				
Signed:  Name: Joshua Kennedy				Cert: Mechanic 4653415 A/P Date: 11/10/2022


05/08/2023, Lycoming O-320-E2D, SN: L-22162-27A, ETTSN: 2968.5, SMOH: 1328.3. Engine disassembled And inspected as per Lycoming recommendation due to excessive time with cylinders removed and no torque plates installed. Crankcase, crankshaft, camshaft inspected no defects noted, Engine reassembled IAW Overhaul Manual Lycoming Direct Drive Engines PN: 60294-7 with the following new parts. Main Bearings: PN. SL68763A-M003, Connecting Rod Bearings: PN. SL61662A, Connecting Rod Bolts and Nuts: PN's. SL78027 & LW-12186, Vacuum Pump Gear: PN. SL72970, Rocker Arm Shafts: PN. SL13790A, Thrust Button: PN. AEL12892. Three overhauled Lycoming cylinders PN: LW-12417 installed (#1,#3,#4) and one new Superior cylinder PN: SLC36005 installed (#2). Upon completion of Overhaul Manual Lycoming Direct Drive Engines: Section 9 Test Procedures this engine will be certified for return to service. -----END----- William A. Latham, Jr. AP3557002 

05/08/2023, Lycoming O-320-E2D, SN: L-22162-27A, ETTSN: 2968.5, SMOH: 1328.3. This engine requires compliance with Lycoming Overhaul Manual Direct Drive Engines PN: 60294-7, Section 9 Test Procedures and an appropriate log book entry detailing said procedures has been entered by a properly rated engine mechanic prior to engines return to service. -----END----- William A. Latham, Jr. AP3557002 

**KC**  
 E2D L-22162-27A   
 Created 07/12/2023 Lycoming O-320-E2D S/N L-16398-39A Engine 1 Tach 2950.60  
 IT 5543.19 TSOH 1310.60  
 Completed annual inspection as per FAR part 43 appendix D and per PA28-161 M.M. Reinstalled this engine on N2107E. Serviced engine with oil and new oil filter P/N AA46110-2. Installed overhauled magnetics P/N 13790A, SL61662A and SL72970. S/N 13790A and SL72970 are 25 degrees BTDC. Installed original camshaft.  
 I certify that this engine has been inspected in accordance with an annual 100 hour inspection per FAR part 43 appendix D and was determined to be in airworthy condition.  
 Gregory Walton #3807766 A&P IA Date 7/12/23 Signature 

**KC**  
 E2D L-22162-27A   
 Created 11/09/2023 Lycoming O-320-E2D S/N L-16398-39A Engine 1 Tach  
 3174.10 TTIS 5866.69 TSOH 1534.10

removed oil pressure relief valve adjusted the oil pressure and reinstalled existing oil pressure relief valve per lycoming overhaul manual section 9 ops check good

Josh Kennedy A&P#4653415 Date 11/9/23 Signature 

**TOTALS**-Carry forward to next page






KC

Created 12/15/2023 Lycoming O-320-D3G ELD 2242-27A  
3207.80 TTIS 5900.39 TSOH 1567.80


Completed a 100 HR inspection on this engine IAW FAR 43 app. D with reference to Piper PA-28-161 AMM. Researched AD's through bi-weekly Report 2023-25. No applicable AD's due at this time. Compressions #1 79/80 #2 78/80 #3 46/80 #4 79/80. Removed #3 Cylinder due to low compression and replaced with overhauled cylinder P/N LW-12416 S/N 6728 From Ace Cylinders. Cylinder was loaded with piston, piston rings and ready to hang from Ace Cylinders. Piston P/N 75089 and piston ring set P/N CN203. Installed cylinder with single cylinder gasket set P/N SL12032-SC. Correcting discrepancy of 46/80 psi compression on cylinder #3, new compression for Cylinder #3 79/80. Drained oil sump. Removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W80. Cleaned, gapped and inspected sparkplugs. Repaired #1 and #2 bottom ignition leads. Replaced #2 and #4 intake gasket P/N 71973. Removed thread taped and reinstalled Oil pressure sensor Correcting discrepancy of leaking at the fitting. Repaired Broken carb heat box. All work done with reference to Piper PA-28-161 AMM, Lycoming overhaul direct drive manual, Lycoming Service instruction 1191A, and Lycoming Special service publication SSP 1776-5. I certify that this engine has been inspected in accordance with a 100 HR inspection and was determined to be in airworthy condition.

Logan Baker P#4638550 Date: 12/15/23 Signature: 

KC

Created 03/05/2024 Lycoming O-320-D3G ELD 2242-27A  
3297.20 TTIS 5989.79 TSOH 1657.20


Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-161 AMM Sec 3. Researched AD's through bi-weekly report 2024-04 Compressions #1 69/80 #2 73/80 #3 74/80 #4 70/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W80. I certify that this engine has been inspected in accordance with a 100 HR inspection and was determined to be in airworthy condition.

Gregory Warton # 3807766 A&P IA Date: 3/5/24 Signature: 

KC

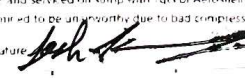
Created 05/14/2024 Lycoming O-320-D3G ELD 2242-27A  
1755.10 3395.10 TTIS 6087.69 TSOH

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-161 AMM. Researched AD's through bi-weekly 2024-04 04/22/2024-05/05/2024. No applicable AD's due at this time. Compressions #1 72/80 #2 76/80 #3 76/80 #4 67/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100. I certify that this engine has been inspected in accordance with 100 Hour inspection and was determined to be in airworthy condition.

Owen Fortney # A&P 4429081 Date: 5/14/24 Signature: 

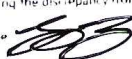
Created 05/25/2024 Lycoming O-320-D3G ELD 2242-27A Engine Tach 34810 TTIS 5145.59 TSOH 1643

Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-161 AMM. Researched AD's through bi-weekly 2024-04 04/22/2024-05/05/2024. No applicable AD's due at this time. Compressions #1 72/80 #2 76/80 #3 76/80 #4 20/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100. I certify that this engine has been inspected in accordance with 100 Hour inspection and was determined to be in airworthy due to bad compression.

Josh Kennedy # A&P 4429081 Date: 5/25/24 Signature: 

Created 06/15/2024 Lycoming O-320-D3G ELD 2242-27A Engine Tach 34810 TTIS 5145.59 TSOH 1643

Removed and replaced #4 cylinder due to low compression found at 100 HR inspection. Replaced #4 cylinder with overhauled loaded cylinder assembly P/N 05871117 A. Cylinder P/N LW12416 S/N 6728. Cylinder was installed using gasket set P/N SL12032-SC. Cylinder yellow tag (serviceable tag) put with a red tag recording. All work done with reference to Lycoming overhaul direct drive manual and SSP 1776-5. Completed test run with IAW Service Instruction No. 1421C. Test run satisfactory correcting the discrepancy from the previous 100 HR inspection.

Logan Baker P#4638550 Date: 6/15/24 Signature: 


SUB-TOTALS this page

TOTALS-Carry forward to next page

PERSON PERFORMING WORK

Age



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
				<p>Created: Wed, 07/03/24 Model: O-320-E2B S/N: L-22162-27A TACH: 3507.0 TTIS: 6199.6 TSOH: 1867.0</p> <p>Removed carburetor Model: MA-4SPA P/N: 10-5217 S/N: D045104 and installed overhauled Carb Model: MA-4SPA P/N: 10-5217 S/N: MS1CDA10 IAW Piper PA-28-161 AMM and Lycoming O-320-E2D manual as reference. Performed ops check, no defects noted.</p> <p>Owen Fortney A&amp;P #4429081 Date: Wed, 07/03/24 Signature: <i>Owen Fortney</i></p>
				<p>Created: Mon, 07/29/24 Model: O-320-E2B S/N: L-22162-27A TACH: 3580.4 TTIS: 6273.0 TSOH: 1940.4</p> <p>Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-161 AMM 5-20-00. Researched AD's through bi-weekly report 2024-15. No applicable AD's due at this time. Compressions #1 75/80 #2 74/80 #3 68/80 #4 79/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100. Removed and replaced cylinder #2 intake gasket P/N 412797. Removed R/H magnetos P/N 437051H1 X060006 and replaced it with magnetos P/N 437051H1 X060672. Removed L/H magnetos P/N 437051H1 X060055 and replaced it with magnetos P/N 437051H1 X061263. R/R both R/H and L/H magnetos gaskets P/N LW-12681. Everything done IAW Lycoming O-320 overhaul manual.</p> <p>I certify that this engine has been inspected in accordance with a 100 Hour and was determined to be in an airworthy condition.</p> <p>Owen Fortney A&amp;P Date: 07/29/24 Signature: <i>Owen Fortney</i></p>
				<p>Created: Mon, 09/16/24 Model: O-320-E2D S/N: L-22162-27A</p> <p>TACH: 763 TTIS: 6369.4 TSOH: 2036.8</p> <p>Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151/161 AMM 5-20-00. Researched AD's through bi-weekly report 2024-18. No applicable AD's due at this time. Compressions #1 77/80 #2 72/80 #3 70/80 #4 79/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100.</p> <p>I certify that this engine has been inspected in accordance with a 100 Hr and has been determined to be in an airworthy condition.</p> <p>Josh Kennedy A&amp;P #4653415 Date: Mon, 09/16/24 Signature: <i>Josh Kennedy</i></p>
				<p>Created: Wed, 1/8/25 Aircraft Registration Number: N2107E Model: O-320-D3G S/N: RL-18769-39E TACH: 171.6 TTIS: 6469.7 TSOH: 2137.1</p> <p>Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151/161 AMM 5-20-00. Researched AD's through bi-weekly report 2024-26. No applicable AD's due at this time. Compressions #1 79/80 #2 78/80 #3 78/80 #4 78/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100. Cleaned, gapped, inspected and tested spark plugs. Re-timed both magnetos with reference to engine data plate. I certify that this engine has been inspected in accordance with a 100 HR inspection and has been determined to be in airworthy condition.</p> <p>Logan Baker A&amp;P #4638550 Date: Wed, 01/08/25 Signature: <i>Logan Baker</i></p>
				<p>Created: 08/07/2025 Aircraft Registration Number: N2107E Make: Lycoming Model: O-320-D3G S/N: 11100</p> <p>TTIS: 8447.7 TSOH: 11100</p> <p>Completed a 100 HR inspection IAW FAR 43 app. D with reference to Piper PA-28-151/161 AMM 5-20-00 and Lycoming O-320 AMM 5-20-00. Researched AD's through bi-weekly report 2024-26. No applicable AD's due at this time. Compressions #1 79/80 #2 78/80 #3 78/80 #4 78/80. Drained oil sump, removed and cut open oil filter. No metal found. Installed oil filter P/N AA48110-2 and serviced oil sump with 7qts of Aeroshell W100. Cleaned, gapped, inspected and tested spark plugs. Re-timed both magnetos with reference to engine data plate. I certify that this engine has been inspected in accordance with a 100 HR inspection and has been determined to be in airworthy condition.</p>

[illegible]