

**LYCOMING**

### Rebuilt Reciprocating Engine Certificate

This is to certify that the engine as described hereinafter has been REBUILT in accordance with the applicable Lycoming specifications. It has been determined airworthy to return to service and is in a condition for safe operation. All applicable Federal Aviation Administration Airworthiness Directives and Lycoming Service Publications have been complied with. All accessories as part of the type certificate are new or newly rebuilt. Refer to enclosed Form ET001 for applicable accessory part numbers and serial numbers.

Serial Number RL-24694-40E  
Engine Model O-540-J3A5D  
Work Order CUR24694  
Total Time 0.0

Form 2481 Rev 07/12

 2/28/13  
Authorized Representative Date

Production Certificate #3  
652 Oliver Street Williamsport, PA 17701 U.S.A  
Lycoming Engines is a division of Avco Corporation

Engine

N616HT  
 Model: O-540-J3A5D  
 S/N: RL-24694-40E  
 Date: 11 April 2013



Hobbs Time: 2224.7  
 Tach Time: 2006.1  
 Total Time: 0  
 Work Order: S-13-00015

Case  
 Number

Complied with an Annual inspection using Piper AMM 761-681 Periodic Inspection form as a guide to comply with the inspection requirements of FAR 43 appendix D.  
 Installed rebuilt engine O-540-J3A5D S/N RL-24694-40E per Piper AMM 761-681 Ch 71-03-00 thru Ch 71-21-00 with the following new accessories: Carburetor P/N 61C26048 S/N AV019770, Fuel Pump P/N LW-15472 S/N H2512, Alternator P/N 32B19549 S/N H-M101981 and overhauled Magneto P/N 66E21580-70 S/N B-01077. Engine rebuilt by Lycoming Engines Certificate # LYC PC3 under WO # MS-424914.  
 Installed new starter P/N ERZ-8011 S/N H-M101598.  
 Installed 4 new engine mounts P/N J-9613-12.  
 Installed new bushing P/N 63900-119 for carb mixture arm eye bolt.  
 Installed new oil quick drain valve P/N CCB-37000.  
 Installed new engine preheater P/N EZ441A.  
 Installed Rapco overhauled vacuum pump P/N 211CC, S/N 152691.  
 Accomplished all required operational and functional checks with satisfactory results. Ground performance run good, no leaks noted.

I certify that this Engine has been inspected in accordance with an Annual inspection and is determined to be in an airworthy condition. Pertinent details are on file under the above work order.



Signed *D. Mesoply* Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C

		Page Total	All Repair Data Must Bear the Endorsement of a Certified Mechanic, and his Rating and Certificate Number MUST be Shown.
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		Total to Date	



# ENGINE LOG

Serial No. \_\_\_\_\_

Date	Engine N616HT Model: O-540-J3A5 S/N: L-24694-40A Date: 6 March 2014		Tach Time: 2069.9 Total Time: 63.8  Work Order: S-14-00035
Complied with an Annual Inspection using Piper Inspection Report P/N 230-811 form as a guide to comply with the inspection requirements of FAR 43 Appendix D. Performed cylinder compression test with the following results: #1 76/80 #2 78/80 #3 72/80 #4 76/80 #5 76/80 #6 76/80. Changed engine oil and filter. Cut open and inspected old filter, no unusual contaminants noted. Serviced engine with 12 qts Aeroshell 15W50 and new CH48103-1 filter. Installed 2 new mufflers P/N 67517-00 (S/N 32163 center, S/N 32165 aft position) with new flange gaskets P/N 77611. AD 2012-03-07, effective date 27 Mar 2012, not applicable. HA-6 carb not installed in this application. Accomplished all required operational and functional checks with satisfactory results. Ground performance run good, no leaks noted.			
I certify that this Engine has been inspected in accordance with an Annual inspection and is determined to be in an airworthy condition. Pertinent details are on file under the above work order.			
Signed  Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C			

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Engine

N616HT  
Model: O-540-J3A5  
S/N: L-24694-40A  
Date: 20 October 2014



Hobbs Time: 2334.9  
TACH Total Time: 2106.9  
Total Log: 100.5  
Work Order: S-14-00315

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Drained oil, removed filter, and inspected for contaminants, none noted. Installed new CH48103-1 filter. Serviced engine with 12 quarts of Aero Shell 15 / 50 oil and cleaned engine.  
Accomplished all required operational and functional checks with satisfactory results. Ground performance run good, no leaks noted.

The Engine identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file under the above work order.

Signed [Signature] Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C

Engine

N616HT  
Model: O-540-J3A5D  
S/N: RL-24694-40A  
Date: 02 March 2015



Hobbs Time: 2352.1  
Tach Time: 2122.7  
Total Time: 116.60  
Work Order: S-15-00426

Complied with an Annual Inspection using Piper PA-28-236 AMM P/N 761-681 Ch. 5-21-00 form as a guide to comply with the inspection requirements of FAR 43 Appendix D.

Compression readings: #1 75/80 #2 78/80 #3 75/80 #4 75/80 #5 75/80 #6 75/80  
Drained engine oil and removed oil filter and suction screen, inspected for contaminants, none noted. Installed new oil filter CH48103-1.  
Serviced engine with 12 quarts of 15W50 Aeroshell oil.  
Accomplished all required operational and functional checks with satisfactory results. Ground performance run good, no leaks noted.

I certify that this Engine has been inspected in accordance with an Annual inspection and is determined to be in an airworthy condition. Pertinent details are on file under the above work order.

Signed [Signature] Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C

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# ENGINE LOG

Serial No. \_\_\_\_\_

**Engine**

Model: **N616HT**  
 O-540-J3A5D  
 S/N: **L-24694-40A**  
 Date: **01 March 2018**



Hobbs Time: **2519.0**  
 Tach Time: **2273.1**  
 Total Time: **267.0**  
 Work Order: **S-18-00020**

License  
 Number

Complied with an Annual Inspection using Piper Inspection Report P/N 230-811 form as a guide to comply with the inspection requirements of FAR 43 Appendix D.  
 Performed cylinder compression test with the following results: #1 75/80 #2 78/80 #3 76/80 #4 77/80 #5 77/80 #6 76/80.  
 Changed engine oil and filter. Cut open and inspected old filter, no unusual contaminants noted. Serviced engine with 12 qts Aeroshell 15W50 and new CH48103-1 filter.  
 AD 2017-16-11, effective date 15 Aug 2017, not applicable per para (c)(1) per Lycoming MSB 632B table and per para (c)(2) engine was not repaired or overhauled using affected parts in table 2. No further action required.  
 Adjusted carburetor heat control cable for proper operation of carb heat system.  
 Removed, cleaned, gapped, and re-installed all engine lower spark plugs in accordance with Piper AMM 761-681, Ch. 74-22-00.  
 Installed new gaskets P/N 75906 on #2,3, and 5 engine cylinder rocker covers, ref. Lycoming Manual 60294-7, Sec. 6.  
 Accomplished all required operational and functional checks with satisfactory results. Ground performance run good, no leaks noted.

I certify that this Engine has been inspected in accordance with an Annual Inspection and is determined to be in an airworthy condition. Pertinent details are on file under the above work order.

Signed *[Signature]* Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMR171C

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**All Repair Data Must Bear the Endorsement of a Certificated Mechanic, and his Rating and Certificate Number MUST be Shown.**





# ENGINE LOG

Serial No. \_\_\_\_\_

**Engine**

N616HT  
Model: O-540-J4A5D  
S/N: L-24694-40A  
Date: 13 March 2019



Hobbs Time: 2575.3  
Total Time: 323.3  
Cycles:  
Work Order: S-19-00056  
S-19-00076

License  
Number

Complied with an Annual Inspection using Piper Inspection Report P/N 230-811 form as a guide to comply with the inspection requirements of FAR 43 Appendix D.

Performed cylinder compression test with the following results: #1 77/80 #2 78/80 #3 77/80 #4 77/80 #5 78/80 #6 77/80.

Changed engine oil and filter. Cut open and inspected old filter, no unusual contaminants noted. Serviced engine with 12 qts Aeroshell 15W50 and new CH48103-1 filter.

Removed carburetor ice detect probe PN 763-496 and installed new probe PN 763-496 per Piper AMM 761-681, Ch. 71-60-00.

Installed 6 ea. new gaskets PN 75906 on all cylinder rocker covers.

Resealed oil filler pipe base at engine case.

Secured clamps on oil drain back tubes to eliminate seeping.

Accomplished all required operational and functional checks with satisfactory results. Ground performance run good, no leaks noted.

I certify that this Engine has been inspected in accordance with an Annual inspection and is determined to be in an airworthy condition. Pertinent details are on file under the above work order.

Signed *[Signature]* Olathe KS 66062 (913) 782-0530 FAA Repair Station #AMYR171C

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**ENGINE LOGBOOK ENTRY**

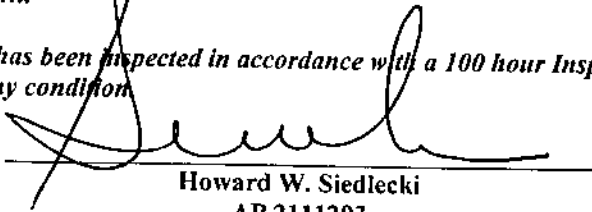
Date: 7/6/2020

N616HT Make: Piper Model: PA28-236 S/N: 28-11043 TR: 2368.5 TTE 362.4 WO: 1269

License  
Number

Cylinder compression test: #1- 77/80, #2- 75/80, #3-73/80, #4-76/80, #5- 74/80, #6- 77/80.  
Changed oil and filter. Cut open old filter and examined for contamination. None noted. Added  
Aeroshell 15W50 oil. Pressurized exhaust system and checked for leaks and cracks. Checked and set  
mag timing. Cleaned and checked fuel primer nozzles. Checked air filter element. Cleaned, gapped,  
and tested spark plugs. Checked and lubed engine controls. Ran engine and checked for oil leaks and  
engine operation....end.....

*I certify that this engine has been inspected in accordance with a 100 hour Inspection and is determined  
to be in an Airworthy condition*



Howard W. Siedlecki  
AP 2111293

for:

Waukegan Aviation Services, Inc  
Waukegan, IL  
847-336-6075