

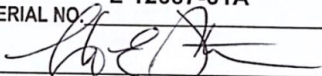
# ENGINE LOG

~~N3216S~~ @  
N3216S



### NEW RECIPROCATING ENGINE CERTIFICATE

This is to certify that the engine as described hereinafter has been manufactured run-in and tested as prescribed by **LYCOMING** specifications and Federal Aviation Regulations. No further run-in is required. All applicable Federal Aviation Airworthiness Directives and Lycoming Service Bulletins have been complied with at time of Manufacture.

MODEL TIO-540-AH1A SERIAL NO. L-12687-61A  
DATE 2-13-07   
(AUTHORIZED REPRESENTATIVE)

**LYCOMING**  
A Textron Company

**LYCOMING ENGINES**  
652 Oliver Street  
Williamsport, PA 17701 U.S.A.

Form No. 777-B (Rev. 3/03)

## OWNER

NAME	ADDRESS	Installed in Aircraft No.	Date
1	<i>Same aircraft, New N#:</i>	<i>N1021S</i>	<i>APR 13 2007</i>
2		<i>N3216</i>	
3			
4			
5			
6			

If this book is found, please return it to the owner.

NOTICE

Making false entries in this book is a violation of government regulations and is punishable by civil penalty.

**THIS ENGINE SERVICED WITH**

**EXXON ELITE 20W50**

**OIL AT THE PIPER FACTORY**



## ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		
	Brought Forward →			



2720 BETSWORTH DR., WATERLOO, IOWA 50703

April 23, 2015      Hobbs: 0.0      TTAF: 667.0      TTeng: 667.0      WO #5384

Engine inspected and serviced IAW Piper PA-32R-301/301T Saratoga II Inspection Form and Maintenance Manual.

1. Fabricated and installed reinforcement patch to RH aft baffling.
2. Replaced all exhaust gaskets with new.
3. Cleaned, gapped, tested and reinstalled spark plugs.
4. Compression check as follows: #1-78/80, #2-68/80, #3-74/80, #4-78/80, #5-76/80, #6-76/80.
5. Installed new AA48103-2 filter. No abnormal particles noted at this time. Filled sump with 12 qts Aeroshell W100 Plus oil.
6. Washed engine and ground ran. No defects or leaks noted at this time.
7. C/W AD 2011-26-04 External fuel injector lines by inspecting fuel lines for condition and proper support per SB342G. Replaced all clamps with new. AD due again by 767.0 ttaf or whenever maintenance is done on the fuel lines.
8. Researched AD notes through bi-weekly 2015-08. See separate AD Compliance Record.

I certify that this engine has been inspected IAW an **annual inspection** and determined to be airworthy at this time.

Andrew J. Regier      A&P 3597876 IA

Andrew J. Regier

and Remarks	Signature	Certificate No.
<p>April 30, 2015 Hobbs: 0.1 Installed new TIT probe.  AICor 86307. Ground run - ok</p>	<p>Andrew Regier</p>	<p>A&amp;P 3597876</p>



2720 BETSWORTH DR., WATERLOO, IOWA 50703

November 5, 2015

Hobbs: 4.4

TTAF: 671.4

TTeng: 671.4

WO #5465

Engine inspected & serviced IAW Piper PA-32R-301/301T Saratoga II Inspection Form & Maintenance Manual.

1. Cleaned, gapped, tested and reinstalled spark plugs.
2. Compression check as follows: #1-76/80, #2-74/80, #3-76/80, #4-74/80, #5-76/80, #6-76/80.
3. Washed engine and ground ran. No defects or leaks noted at this time.
4. Researched AD notes through bi-weekly 2015-22. See separate AD Compliance Record.

I certify that this engine has been inspected IAW an **annual inspection** and determined to be airworthy at this time.

Andrew J. Regier  
A&P 3597876 IA

*Andrew J. Regier*

## ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance
	This Date	Since Major		

ENGINE MODEL  
TIO-540-AH1A  
ENGINE S/N L-12687-61A  
REG NO 3216S  
WORK ORDER 28005



**Aircraft Solutions, LLC.**

8125 W Pilot Dr  
Spokane, WA 99224  
Phone (509) 838-8883

DATE 5/10/2016  
A/C TSN  
ENG TT  
TSMOH  
HOBBS 92.9

**Engine Entries**

Compression checked all cylinders. MO=44 1= 72, 2= 86, 3= 76, 4= 48, 5= 75, 6=74. Only cyl. 3 spark plugs were very oily fouled, not firing. Borescope checked all cylinders. Appear ok inside. Cleaned, gapped, tested all spark plugs. 3 noted resistance bad. Reinstalled after replacing 3 with new. Ground ran. Operationally check good at this time. Drained oil. Changed oil filter inspected oil filter for contaminants, found ok. Serviced engine with 11 qts Aeroshell W 100 Plus oil, and 1 in extra put in baggage area. Removed and installed new #2 cylinder intake gasket and o-ring. PIN 71973 gasket. 72711 o-ring. Removed nut. Inspected line and fitting ok. Reinstalled. Installed new gasket. Forward of transition joint on pipe assbly. by #3 cylinder where missing gasket was noted. Gasket part no 78084. Ground run and leak check good. approved for return to service.

The aircraft and/or component(s) on 3216S was repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file under Work Order No. 28005. Dated 5/10/2016

DATE: 5/10/2016

SIGNED: *Richard A. Bybee*  
Richard Bybee A&P 3011621

Work Order: 28005

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No.



West Aviation

1/2/2017

N3216S

Piper PA-32R-301/301T

Engine Logbook

Hobbs Hours: 213.2 :: Aircraft TT: 880.2 :: TTENG: 880.2

Completed annual inspection in accordance with manufacturers inspection procedures manual.

Engine inspected and serviced I.A.W. Piper PA32R-301/301T Saratoga II Inspection form and maintenance manual P/N#761-879, Dated July 31, 2013.

Removed sparkplugs and installed new Tempest sparkplugs P/N#URHB32E. Performed compression test with following results. Cyl#1 76/80, Cyl#2 70/80, Cyl#3 76/80, Cyl#4 78/80, Cyl#5 76/80, Cyl#6 76/80. Drained oil and removed spin on filter. Opened filter and inspected for metal. Installed new filter P/N#AA48103-2. Filled engine with 12qts of Phillips 20W50 oil. Removed and installed new rocker cover gaskets. Removed propeller and desludged crankshaft. Reinstalled propeller. Torqued propeller mounting nuts to 65ft/lbs. Safetied propeller mounting nuts. Washed engine and ground run. No leaks noted at this time.

C/W AD#11-26-04 External fuel injector lines by visual inspection. Next due Hobbs:313.2 or whenever maintenance is done on the fuel lines.

I certify that this Engine has been inspected in accordance with an Annual/100HR inspection I.A.W. FAR 43, Apdx. "D" and was determined to be in an airworthy condition and approved for return to service.

Signed

David A West A&P3266041 IA

West Aviation LLC  
1110 SE Flightline Dr.  
Hangar E1  
Warrenton, OR 97146  
(503) 338-9306

ENGINE LOG



West Aviation

tenance

5/21/2017

N3216S

Lycoming TIO-540-AhA1A

Engine Logbook

Hobbs Hours: 279.0 :: Aircraft TT: 946.0 :: Engine TT: 946.0

Performed oil and filter change in accordance with the manufacturers maintenance manual. Installed 12 quarts of Phillipis 20W-50 Oil and Champion filter P/N#48110-2. Washed engine, Ground run and leak checked preformed.

The above work was completed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service for the work accomplished.

Signed

David A West A&P3266041 IA

West Aviation LLC,  
1110 SE Flightline Dr.  
Hangar E1  
Warrenton, OR 97146  
(503) 338-9306

Total To Carry Forward				

**N3216S Engine Log 4-24-2018 Hourmeter: 370.0 Airframe, Prop & Eng. total: 1037.0**

Performed differential compression check. Results: 77 78 78 78 78 78

CW AD 2015-19-07 (11-3-15) on fuel injection lines by inspection and by replacement of #3 line per AD due to chafing wear from ignition lead. **Next inspection due: Hourmeter: 480.0 / any time lines are disturbed / engine overhaul, Whichever occurs first.**

AD 09-02-03 (2-9-09) on Fuel injection servo plug gasket: The proper gasket was installed and the AD was signed off as complied with on May 1, 2009 but they did not mark the plug with a "G" per the AD. We confirmed compliance by records research and marked with a "G" per AD. No further action required.

Installed new LW-15628 crankshaft nose seal and new MS28775-228 prop o-ring. Accessible prop cavity and crankshaft desludged. Engine washed.

Replaced #6 rocker cover with new cork gasket due to leakage.

New Slick M6005 ignition harness installed.

Torqued all rocker cover screws and tightened all hose clamps.

Removed SkyTech starter 149 NL sn: FN - 3814142 due to loose assembly screws. Installed new 149NL, S/N H-S032221 starter supplied under warranty by Hartzell.

Found mixture cable and wastegate actuator cylinder badly damaged due to wearing on each other, Installed new Piper mixture cable 455-357 and overhauled wastegate assembly from Main Turbo. (their wo 54755).

Installed flare seal at wastegate inlet hose connection.

Replaced intake gaskets and o-rings at #1 and #2 cylinders. 477312 o-rings and 71973 gaskets.

Retorqued all exhaust flange nuts.

Smoothed mating surface of turbo to plenum.

Replaced broken turbo mount bolt (broken during removal) and fwd support arm bolt.

Cracked turbo mount bracket weld repaired and reinforced and reinstalled.

Drained oil, removed oil filter, cut open and inspected for contaminants. No significant contamination found. Removed and inspected suction screen, reinstalled and safetied. Installed oil filter (AA48110-2), and serviced engine with 12 quarts of Phillips 20-50 oil (stick read 9.25 qts after runup and filling prop, filter, wastegate, etc. Routine oil sample taken, sent to AOA lab and results were Normal. Removed, cleaned, inspected, gapped, rotated, tested, and reinstalled spark plugs with new gaskets.

Engine leak checks and runups satisfactory.

I certify that this engine has been inspected IAW an Annual inspection and was found to be in airworthy condition.

*Michael Houtchens*

Michael Houtchens A&P 3196889 IA NW Airtech WO: 4256 Ph: 360-501-4631



N3216S  
S/N L-12687-61A  
HrMtr 374.6  
Tach  
TSMO 1041.6



Boulder City Airport  
Boulder City, NV

Date 1/17/2019  
Manufacturer Lycoming  
Model TIO 540-AH1A  
TTE 1041.6

## Engine Log Book

Removed and sent out for overhaul fuel servo p/n 2576554-2 s/n 70931009. Installed fuel servo, set idle and low mixture. See 8130 dated 15-Jan-2019. Ops and leak check ok.

Paul Schulz AP / IA 3417346

Maintenance

Total To Carry Forward				





ENGINE MODEL:  
TIO-540-AH1A  
ENGINE S/N: L-12687-61A  
REG. NO. N1717R  
WORK ORDER:  
VGT11757-03-2020



**Lone Mountain Aviation, Inc.**

Repair Station No. L9OR473Y  
2830 N. Rancho Dr. Suite A  
Las Vegas, NV 89130  
Phone: (702) 309-2200

DATE: 3/11/2020  
A/C TSN: 455 7  
ENG TT:  
FLIGHTTIME: 455 7

**Engine Entries**

Changed oil and filter. Cut open filter and checked for metal, none found. Serviced with 12 qts. of PHILLIPS 66, 20W-50 XC. Oil sample taken. Engine run and leak check good.

The aircraft and/or component 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 at this facility under the above W.O. number.

DATE: 3/11/2020

SIGNED:

Joseph Amadio  
Certified Repair Station No. L9OR473Y

Work Order: VGT11757-03-2020

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N1717R  
S/N L-12687-61A  
Hr/Mtr 497.6  
Tach  
TSMO 1164.6

Boulder City Airport  
Boulder City, NV

Date 7/31/2020  
Manufacturer Lycoming  
Model TIO 540-AH1A  
TTE 1164.6

## Engine Log Book

Removed and sent out for repair / overhaul turbocharger P/N 46C19836, S/N IIL00017. Installed turbocharger P/N 46C19836, S/N IIL00017. See 8130 from Main Turbo Systems dated 7/28/2020. Test flight required.  
Paul Schulz AP / IA 3417346