



# ENGINE LOG

	Engine Time	Recorder Reading	Maintenance
	Since Major		
<p style="text-align: center;">ENGINE LOG</p> <p><b>July 10, 2017 N531A Hobbs Time 1711.0</b>  <b>WJH: ORDER # 20922</b></p> <p>Changed oil and filter; cut filter open, inspected, no metal found. Serviced engine with 12 quarts of Aeroshell 15W-50 detergent oil. Ran up ground operational check, leak check normal.</p> <p><b>Brandon M Smith AP 3985223</b>  <i>Brandon M Smith</i></p> <p><b>SYREK-MEE AVIATION, INC.</b>  <b>OLD BRIDGE AIRPORT, HANGER AAI</b>  <b>182 PENSION RD, ENGLISH TOWN NJ 07726</b>  <b>732-792-0220</b></p>			<p><i>Air Mods and Repair, Inc.</i>  Trenton-Robbinsville Airport (N87)  Factory Authorized Mooney Service Center</p> <p><i>Engine Log</i></p> <p><b>N531A 1-3-18 Hobbs: 1763.0 TTIS: 1763.0</b></p> <ul style="list-style-type: none"> <li>• C/W Annual inspection &amp; servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.</li> <li>• Compressions checked (@80 PSI): 1/70 2/71 3/74 4/73 5/72 6/76</li> <li>• Drained oil, inspected filter &amp; screen. Installed new AA48110-2 filter and 12qts. Aeroshell 15W50 oil.</li> <li>• Removed, Cleaned and gapped spark plugs.</li> <li>• Replaced 2 Spark plugs w/ New URHB36S.</li> <li>• Replaced Cyl. # 1, 4 and 6 RBC gaskets w/ New P# 67193.</li> <li>• Replaced TIT probe w/ New P# PRB-4873.</li> <li>• Replaced Exh. Elbow aft of waste gate w/ New P# 40B22317.</li> <li>• Run-up engine, operation and leak check good.</li> </ul> <p><i>C/W ADIS-19-97 External Fuel Injection Lines Next Due: 1-19 or Hobbs: 1853.0</i></p> <p><i>AD compliance checked thru bi-weekly 2017-26</i></p> <p><b>I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.</b></p> <p>David Mathiesen A/P 2777904 I/A <i>David Mathiesen</i></p>
<p>Total to Carry Forward</p>			

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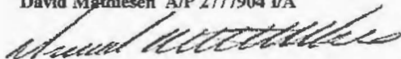
Air Mods and Repair, Inc.  
Trenton-Robbinsville Airport (N87)  
Factory Authorized Mooney Service Center

Engine Log

N531A 12-9-16 Hobbs: 1639.2 TTIS: 1639.2

- C/W Annual inspection & servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.
  - Compressions checked (@80 PSI): 1/75 2/70 3/73 4/70 5/77 6/76
  - Drained oil, inspected filter & screen. Installed new AA48110-2 filter and 12qts. Aeroshell 15W50 oil
  - Removed, Cleaned and gapped spark plugs.
  - Replaced 4 Spark plugs w/ New URHB36S.
  - Replaced Cyl # 1,3 and 5 RBC gaskets w/ New P# 67193.
  - Replaced missing hardware in baffle @ Cyl. # 2 position.
  - Run-up engine, operation and leak check good.
  - C/W AD15-1947 External Fuel Injection Lines - Next Due: 13-1 or Hobbs: 1742.0
  - AD compliance checked thru 6-weekly 2016-24
- I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in air-worthy condition.

David Mathiesen A/P 2777904 VA



ENGINE LOG

March 23, 2017 N531A Tach Time 1664.2

WORK ORDER # 20927

Drained engine oil. Cut and inspected filter. Installed new oil filter and serviced engine with 12 quarts Aeroshell 15W50. Run check satisfactory. Alex Pucciarillo AP 2769252

SYREK-MEE AVIATION, INC.  
182 Pension Rd. Englishtown, NJ 07726  
732-792-0120

Certificate No.



Air Mods and Repair, Inc.  
Trenton-Robbinsville Airport (N87)  
Factory Authorized Mooney Service Center

Engine Log

N531A July 16, 2015 ACTT: 1433.1 Hobbs:1433.1

- Drained oil. Inspected filter. Installed new AA48110-2 filter and 11 qts. Aeroshell 15w50 oil. Ground run & leak check satisfactory.

*Matthew L. Miller*

Air Mods and Repair, Inc.  
Trenton-Robbinsville Airport (N87)  
Factory Authorized Mooney Service Center

Engine Log

N531A Nov. 20, 2015 Hobbs: 1481.0 TTIS: 1481.0

- C/W Annual inspection & servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.
- Compressions checked (@80 PSI): 1/76 2/72 3/74 4/77 5/78 6/73
- Washed down engine. Drained oil, inspected filter & screen. Installed new AA48110-2 filter and 11qts. Aeroshell 15W50 oil. Installed #1/3 exhaust assembly (repaired by Dawley WO # 113113 placed in aircraft records) with new gaskets 77611 & 78084. Lubricated all Exhaust slip joints. Installed new: Alcor 86341 TIT probe, 6 UHRB36S spark plugs, #1, 3 & 5 RBC gaskets. Ground run, leak and operational checks satisfactory. Retorqued exhaust flange hardware post-run. Secured oil pressure line as req'd.

*C/W AD15-19.07 Exhaust Fuel Injection Lines*

*All compliance checks thru 11-weekly 11/15-31.*

I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Matthew L. Miller AP2780179 IA

*Matthew L. Miller*

# SERVICEABLE

Pertinent details of the exhaust system component repairs are on file at this repair station under:

Name Air Mods & Repair

Work Order No. 113, 113

Date 11-18-15

Inspected by Dawley

## Dawley Aviation

140 Industrial Dr.  
Burlington, WI 53105

1-800-338-5420

FAA CRS No. NJ5R069N

ENGINE LOG

February 25, 2014 531A Hobbs Time 1281.6

WORK ORDER # 20236

Changed oil and filter cut filter open inspected, no metal found. Serviced engine with 12 quarts of Aeroshell 15W-50 detergent oil. Ran up ground operational check, leak check normal.

John M Bundy 80584509 AP.

*John M Bundy*

SYREK-MEE AVIATION, INC.  
OLD BRIDGE AIRPORT, HANGER AAI  
182 PENSION RD, ENGLISHTOWN NJ 07726

Engine Time  
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- C/W Annual inspection & servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.
  - Compressions checked (@80 PSI): 1/75 2/72 3/74 4/73 5/76 6/75
  - Washed down engine. R & R RBC gaskets as req'd.
  - Drained oil, inspected filter & screen. Installed new AA48108 filter and 11qts. Aeroshell 15W50 oil. Added chafe protection to cable at Lwr. RH Eng. Mount & FWD Center baffle. Secured wire bundles/cables as req'd. C/W Slick Magneto 500 hour inspection RH magneto only. Installed new M3081 contact assembly, gasket K3077. Timed magneto to MM spec. Lubricated all Exhaust slip joints. Replaced Cyl. # 2 PR tubes and seals. Installed 1 new UHRB36S spark plug. Installed new locking nuts to V-band clamps.
- Ground run, leak and operational checks satisfactory.

I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Matthew L. Miller  
AP2780179 IA

*Matthew L Miller*

ENGINE LOG

April 20, 2015 N531A Hobbs Time 1398.8  
WORK ORDER # 20320

Changed oil and filter cut filter open inspected, no metal found. Serviced engine with 12 quarts of Aeroshell 15W-50 detergent oil. Ran up ground operational check, leak check normal.

Mark Pfunkel 429529515 AP.

*Mark Pfunkel*

SYREK-MEE AVIATION, INC.  
OLD BRIDGE AIRPORT, HANGER AAI  
182 PENSION RD, ENGLISHTOWN NJ 07726

air, Inc.  
Airport (V87)  
er Service Center

Tach: 1171.2 TTIS: 1171.2

**Remarks**

*Air Mods and Repair, Inc.  
Trenton-Robbinsville Airport (V87)  
Factory Authorized Mooney Service Center*

N531A 10-5-13 Tach: 1232.3 TTIS: 1232.3

- C/W Annual inspection & servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.
- Compressions (@80 PSI): 1: 76 2: 74 3: 76 4: 78 5: 77 6: 77.
- Drained oil. Inspected filter and screen. Installed new filter and Phillips X/C 20w50. Installed 1 new RHB36S spark plug. Replaced baffle hardware as necessary. Re-attached throttle cable sheath at fuel servo and saftied as necessary. Replaced 2 Adel clamps on manifold drain line. Ground run, operational and leak checks satisfactory.
- CAV AD 11-26-04 Fuel inj. lines LAW SB 342G Next Due: 1352
- AD compliance checked thru bi-weekly 2013-19.

I certify that this Engine has been inspected in accordance with an Annual Inspection and has been determined to be in an airworthy condition.

*Matthew L. Miller*  
Matthew L. Miller  
AP27801791A

SYREK-MEE AVIATION, INC.  
OLD BRIDGE AIRPORT, HANGER A41  
182 PENNSION RD, ENGLISHTOWN NJ 07726

Changed oil and filter out filter open inspected, no metal found. Serviced engine with 11 quarts of Aeroshell W-100 detergent oil. Installed 3 missing rocker cover screws and tightened several others as needed. Ran up ground operational check. leak check normal.  
John M Bundy 805584509 AP.

*John M Bundy*

ENGINE LOG  
July 26, 2013 531A Hobbs Time 1200.5  
WORK ORDER # 20091

N531A 5-20-2013 ACTT: 1171.2 Tach: 1171.2 TTIS: 1171.2

- Removed Exhaust, and Engine Baffles. Removed Cylinders 1,3,4,5, & 6 and associated Intake Tubes removed Pistons from connecting rods, cleaned, and inspected pistons & both Valves in all removed Cyls., Inspected Valve Guides for wear, All found in serviceable limits
- Cross Hatch Honed & Lapped ALL valves in removed Cylinders.
- Reassembled ALL valves to proper Cylinder.
- Installed new rings in ALL removed pistons, Compression ring P/n :74241 X2 per assembly and Oil Control ring P/n: 14H21950 X1 per assembly. Measured Clearances I/A/W/ Lycoming Over Haul Manual 60294-7 All within Specs.
- Reinstalled Piston and Cylinder Assemblies to engine w/ new Cyl. Base gaskets P/n:71481 and torque to proper valve.
- reinstalled Push Rod housing with new seals P/n: LW-18661, push rods, and rockers, checked Dry tappet clearance with in limits.
- Reinstalled Intake tubes w/ new "O"-ring seals P/n:72711, and new clamp gaskets P/n:71973
- Reinstalled Engine baffles. and Exhaust with new exhaust gaskets .
- Installed new exhaust gasket Forward of waste gate P/n:78084, and resaftied V-band Clamps as required.
- Installed new R.B.C. gaskets P/n:67193 (X5) as required
- Cleaned gapped and tested spark Plugs, and reinstalled.
- Changed oil & filter. Inspected for signs of abnormal contamination, none found. Serviced w/ AeroShell W100 .

N531A 5-20-2013 ACTT: 1171.2 Tach: 1171.2 TTIS: 1171.2

Continued

- Replaced TIT Probe with new KS Avionics Probe P/N: A002CT-14"
- R&R Oil Cooler hose with new , P/n 124F002-8CR-0136.
- Run up and leak check. Satisfactory
- Performed Engine Run -In I/A/W Lycoming Over Haul Manual 60294-7. Section 9 page 3

Ryan R. McFadden  
A&P 3412280



Total To Carry Forward			



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and Remarks

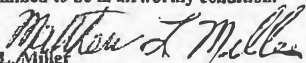
N531A 2-16-2013 Hobbs:1124.5

*Air Mods and Repair, Inc.  
Trenton-Robbinsville Airport (N87)  
Factory Authorized Mooney Service Center*


N531A 10-5-12 Tach: 1082.9 TTIS: 1082.9

- C/W Annual inspection & servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.
- Compressions (@80 PSI): 1: 70 2: 72 3: 78 4: 77 5: 74 6: 74
- C/W AD 11-26-04 Fuel inj. lines IAW SB 342F Next Due: 1182
- AD compliance checked thru bi-weekly 2012-19.
- Applied chafe protection to #3 oil return line & secured.
- Replaced #1 bottom & #2 top spark plug with new.
- C/W Slick SB 2-08A Magneto time check on LH mag. within limits.
- Changed oil & filter. Inspected filter for signs of abnormal contamination, none found. Serviced w/ Phillips X/C 20w50. Ran up, ops check and leak check within normal parameters.

I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

  
Matthew L. Miller  
2780179 A&P / IA

Changed oil & filter. Inspected used filter for signs of abnormal contamination, none found. Serviced w/ Aeroshell 15W50 Ran up, leak check good.

Ryan R. McFadden  
A&P 3412280 


Total To  
Carry Forward

ENGINE LOG

June 1, 2012 531A Hobbs Time 1040.0

WORK ORDER # 19713

Changed oil and filter cut filter open inspected, no metal found. Serviced engine with 11 quarts of Aeroshell 15W50 oil. Ran up ground operational check, leak check normal.  
John M Bundy 80584509 AP.

SYRE TREE AVIATION, INC.  
OLD BRIDGE AIRPORT, HANGER AA1  
182 PENS ION ENGLISHTOWN NJ 07726



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*Air Mods and Repair, Inc.*  
Trenton-Robbinsville Airport (N87)  
Factory Authorized Mooney Service Center

N531A 8-11-12 Hobbs: 1055.1

ENGINE LOG

- Replaced turbocharger with overhauled unit (Hartzell Engine Technologies W/O M926340) Work accomplished IAW MM 81-20-00.
- R&R #2 cylinder due to broken oil control ring. Honed cylinder & installed new rings. Work IAW Lycoming overhaul manual 60294-7.
- Replaced #1 & 3 Intake flange gaskets with new.
- Changed oil & filter. Serviced with Aeroshell 100 mineral. Ran up, leak check & break-in /operational check satisfactory.

Thomas J. Gray  
2777905 A&P

Maintenance

IATA FOR TRAINING USE ONLY

Matthew L.  
2780179 A

I certify that  
this was determined

- C/W
- require
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- C/W
- AD c
- Appl
- Repl
- C/W
- Clean
- found
- norm

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and Remarks

NS31A Hobbs 972.6 12-20-2011

Complied with AD 84-26-02 induction air filter replacement. Next Due: ACFT 1472.

Thomas J. Gray  
2777905 A&P



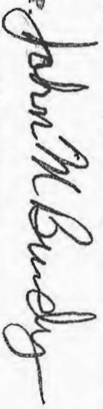
ENGINE LOG

February 9, 2012 NS31A Hobbs Time 989.7

WORK ORDER # 19620

Changed oil and filter cut filter open inspected, no metal found. Serviced engine with 11 quarts of Acrosshell 15W50 oil. Dressed out many inches from propeller blades and painted flat black. Jacked up A/C to service rose strut with fluid and nitrogen. Ran up ground operational check, leak check normal.

John M Bundy 80584509 AP



SYREN-MEE AVIATION, INC.  
OLD BRIDGE AIRPORT, HANGER AA1  
182 PENNSON RD, ENGLISHTOWN NJ 07726

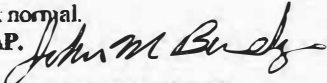
ENGINE LOG

February 11, 2011 531A Hobbs Time 889.7

WORK ORDER # 19315

Changed oil and filter cut filter open inspected, no metal found. Serviced engine with 11 quarts of Acrosshell 15W50 oil. Ran up ground operational check, leak check normal.

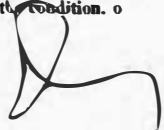
John M Bundy 80584509 AP.



SYREN-MEE AVIATION INC  
OLD BRIDGE AIRPORT, HANGER AA1  
182 PENNSON RD, ENGLISHTOWN NJ 07726

ertificate No.

## ENGINE LOG

Date	Engine Time	Recorder Reading	Maintenance
	<i>Air Mods and Repair, Inc. Trenton-Robbinsville Airport (N87) Factory Authorized Mooney Service Center</i>		
	NS31A	9-2-11	Tach: 933.7 TTIS: 933.7
	<ul style="list-style-type: none"> <li>• C/W Annual inspection &amp; servicing IAW Piper inspection form 230-2047 and requirements of FAR 43 Appendix D.</li> <li>• Compressions (@80 PSI): 1: 70 2: 76 3: 76 4: 77 5: 75 6: 74</li> <li>• C/W AD 08-14-07 Fuel inj. lines IAW SB 342F Next Due: 1033</li> <li>• AD compliance checked thru bi-weekly 2011-18.</li> <li>• Checked torque on engine compartment fluid lines.</li> <li>• C/W 500 Hour inspection on RH magneto. Replaced contact points &amp; Capacitor with new. Reinstalled &amp; timed to engine. Work IAW Unison Manual L-14363C</li> <li>• Tightened throttle arm castle nut &amp; install new cotter key.</li> <li>• Cleaned fuel injectors &amp; Reinstalled using new o-rings.</li> <li>• C/W Slick SB 2-08A Magneto time check on LH mag. within limits.</li> <li>• Changed oil &amp; filter. Inspected filter for signs of abnormal contamination, none found. Serviced w/ Phillips X/C 20w50. Ran up, ops check and leak check within normal parameters.</li> </ul>		
	<p>I certify that this Engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition. o</p>		
	<p>Thomas J. Gray 2777905 A&amp;P / 1A</p> 		
Total To Carry Forward			

Changed engine w/ from previous check not  
 John M.

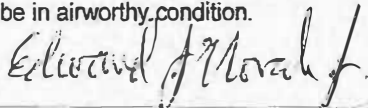
Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: **N531A** Ser. #: **3257160** Eng TT: **831.5**

Date: **08-10-2010** Hobbs: **831.5** ACTT: **831.5**

Completed Annual insp. per FAR 43, app. D using Piper form 767-008 as a guide. Drained oil, added 11 qts. Phillips X/C 20w-50 oil. Installed a new ES48110-1 oil filter - removed filter cut open and inspected with no abnormal contaminants noted - oil sample was sent for analysis. Cyl. Comp. 1) 62/80 2) 74/80 3) 70/80 4) 72/80 5) 74/80 6) 74/80. Slick SB 2-08A is due at 909.2 on the LH mag. only - this insp. is due each 100 hrs. until 985.4. CW Lyco SB 1492D (piston pin plug wear) - oil sample sent out and oil filter was cut open and inspected. CW AD 2008-14-07 to the fuel lines per AD instructions - no defects noted - next insp. due at 931.5 or if a fuel line work involving support clamp movement is done. LH mag 500 hr. insp. is due at 793.5, RH mag. due at 1285.4. Installed 6 new 67193 rocker cover gaskets. Engine ground runup and functional check satisfactory with no fuel or oil leaks noted. I certify that this engine has been inspected in accordance with an Annual insp. and was determined to be in airworthy condition.

Edward J. Novak Jr. A+P 2832024 IA



Signature

Certificate No.

Shoreline Aviation, Inc.  
 93 Old Colony Lane  
 Marshfield, MA 02050  
 781-837-8521

Total 10  
 Carry Forward

N#: **N531A** Ser. #: **3257160** Eng TT: **809.2**  
 Date: **07-20-2009** Hobbs: **809.2** ACTT: **809.2**

Completed Annual insp. per FAR 43, app. D using Piper form 767-008 as a guide. Drained oil, added 11 qts. Phillips X/C 20w-50 oil. Installed a new CH48110-1 oil filter - removed filter cut open and inspected with no abnormal contaminants noted - oil sample was sent for analysis. Cyl. Comp. 1) 75/80 2) 76/80 3) 75/80 4) 77/80 5) 77/80 6) 75/80. Slick SB 3-08A completed to the RH magneto only (LH mag not affected) - a new K3215 carbon brush was installed - no other defects noted. C/W Slick SB 2-08A and found that the magneto timing has not changed - this insp. is due each 100 hrs. until 985.4. C/W Lyco SB 1492D (piston pin plug wear) - oil sample sent out and oil filter was cut open and inspected. C/W AD 2008-14-07 to the fuel lines per AD instructions - no defects noted - next insp. due at 909.2 or if a fuel line work involving support clamp movement is done. Engine ground runup and functional check satisfactory with no fuel or oil leaks noted. I certify that this engine has been inspected in accordance with an Annual insp. and was

determined to be in airworthy condition.

ENGINE LOG

  
 Edward J. Novak Jr. A+P 2832024 1A

DATA FOR TRAINING USE ONLY

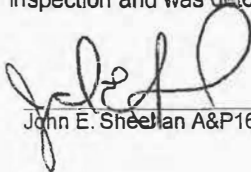
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Shoreline Aviation, Inc  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: 531A      Ser. #: 3257160      Eng TT: 785.4  
Date: 06-02-2008      hobbs: 785.4      ACTT: 785.4

Completed Annual inspection per FAR 43, appendix D using Piper insp. form from the maint. manual as a guide. Cyl. comp. #1 76/80, #2 78/80, #3 78/80, #4 78/80, #5 78/80, #6 78/80. Drained oil, added 11 qts. Phillips X/C 20W/50 oil. Installed and safetied CH48110-1 filter. Installed new LEFT mag. model # 6361 s/n 08010420. Replaced cyl. #1 and #3 exhaust gaskets. C.W. AD 2002-26-01 on fuel lines - next due at next 100hr, Annual or any fuel line work. Engine ground run up and functional check OK with no fuel or oil leaks noted. I certify that this Engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.



John E. Sheehan A&P166037961A

Signature

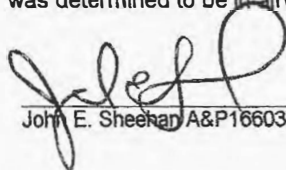
Certificate No.

**Shoreline Aviation, Inc**  
 93 Old Colony Lane  
 Marshfield, MA 02050  
 781-837-8521

**N#: 531A**      **Ser. #: 3257160**      **Eng TT: 754.6**  
**Date: 05-25-2007**      **Hobbs: 754.6**      **ACTT: 754.6**

Maintenance

Completed Annual inspection per FAR 43, appendix D using Piper insp. form 230-2047 as a guide. Drained oil, added 11 qts. Phillips X/C 20W /50 oil. Installed and safetied CH48110-1 filter. Cyl. comp #1 76/80, #2 76/80, #3 78/80, #4 78/80, #5 80/80, #6 76/80. C/MV AD 2002-26-01 on the fuel lines - no defects noted - next due at next 100hr. or annual insp. or any fuel line work. Installed O/H wastegate p/n 470954-0009B s/n DLN11834, see form 8130-3 for more info. Engine ground run up and functional check OK with no fuel or oil leaks noted. I certify that this Engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.



John E. Sheehan A&P166037961A

<b>Total To Carry Forward</b>			

**N#: 531A**  
**Date: 06-0:**

Complete insp. form 78/80, #3 qts. Phillip Installed r #1 and #3 due at ne; and functi this Engin inspector



John E. Sheehan



Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: **N531A** Ser. #: **3257160** Eng. TT: **693.6**

Date: **05-01-2006** Hobbs: **693.6** ACTT: **693.6**

Completed Annual inspection per FAR 43, appendix D using Piper form 230-2047 as a guide. Drained oil, added 11 qts. Phillips X/C 20w-50 oil.

Inspected oil filter element and found no abnormal contaminants - an oil sample was taken for analysis. Installed a new CH48110-1 oil filter. Cyl. Comp. checked as follows: all 78/80. C/W AD 2002-26-01 on the fuel lines - no defects noted - next due at next 100 hr. or annual insp. or any fuel line work. R+R prop. gov. (V5-6, s/n A1809J) after repairs at CRS RC2R130L - see 8130-3 in airframe log this date for details.

Applied PRC type sealant (MIL 8802) to the crankcase parting surface seams near the oil sump gasket and along the top of the engine. R+R #3 cyl. intake pushrod housing seals. Slick magneto 500 hr. insp. is due at 973.8. Engine ground runup completed with no fuel or oil leaks noted. I certify that this engine has been I.A.W. with an Annual inspection and was determined to be in airworthy condition.

  
John E. Sheehan A+P 16603796 IA

Signature

Certificate No.

Shoreline Aviation, Inc  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: 531A Ser. #: 3257160 Eng TT: 650.0  
Date: 09-23-2005 Hobbs: 650.0

Drained oil, Took oil sample. added 11 quarts Phillips X/C 20 W/ 50 oil.  
Installed and safetied new CH48110-1 filter. Cut open old filter and  
inspected, with no contaminants found. Engine ground run up leak  
check ok.


Maintenance

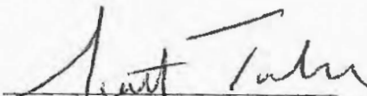
Shoreline Aviation, Inc  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

  
Thomas D. Hall 23517891A

N#: N531A  
Date: 11-01-2005 Hobbs: 672.1

Drained oil, added 11 quarts Phillips X/C 20W/50m oil. Installed and  
safetied CH48110-1 filter. Cut open old filter and inspected, no  
contaminants found. Oil sample taken. Engine ground run up and no  
leaks noted.

Total To Carry Forward		

  
Scott Tatbox A&P 2660779

N# N5:  
Date 0:  
Compl:  
230-20  
Inspec  
oil sam:  
Cyl. Co  
Fuel lin  
any fue  
CRS R  
Accel:  
seams  
#3 cyl.  
due at  
noted.  
inspec

  
John

Shoreline Aviation, Inc  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

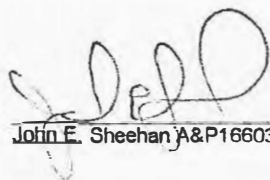
N#: 531A Ser. #: 32-57160 Eng TT: 574.3

Date: 02-24-2005 Hobbs: 574.3 ACTT: 574.3

Drained oil, added 11 qts. Phillips X/C 20W/50 oil. Cut open filter and inspected with no contaminants noted. Removed and insp. suction screen. Oil sample taken. Installed and safetied CH48110-1 filter. Engine ground run up and no oil leaks noted.

Signature	Certificate No.

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

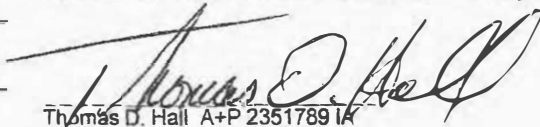


John E. Sheehan A&P166037961A

N#: N531A Ser. #: 3257160 Eng. TT: 586.8

Date: 06-21-2005 Hobbs: 586.8 ACTT: 586.8

Completed Annual inspection per FAR 43, appendix D using Piper form 230-2047 as a guide. Drained oil, added 11 qts. Phillips X/C 20w-50 oil. Installed and safetied a new CH48110-1 oil filter - inspected the removed oil filter element and found no abnormal contaminants. Oil sample taken for analysis. Cyl. Comp. 1) 76/80 2) 76/80 3) 76/80 4) 78/80 5) 77/80 6) 77/80. C/W AD 2002-26-01 on the fuel lines - no defects noted - reinspection due at next annual or 100 hr. insp. or any fuel line work. R+R vacuum pump with a new unit (part # AA3215CC, serial # 31291). Adjusted magneto timing to proper setting. Cleaned engine. Engine ground run up completed with no fuel or oil leaks noted. I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.



Thomas D. Hall A+P 23517891A

Shoreline Aviation Inc.  
93 Old Colony Lane  
Marshfield, MA., 02050  
1-781-837-8521

N#: N631A  
Date: 11-09-2004 HOBBS: 567.2

Drained oil, added 11 qts Phillips X/C 20W/50 oil. Installed and safetied new CH48110-1 oil filter. Inspected oil filter no contamination noted. Engine run up with no oil leaks noted. Oil sample submitted for analysis

Total To  
Carry Forward

  
Scott Tarbox A&P 2660779

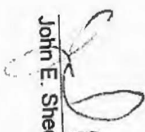
LINE LOG

Recorder  
Reading

Maintenance

IATA FOR TRAINING USE ONLY

N#: 531A  
Date: 02-24-200  
Drained oil, a  
inspected with  
screen. Oil sa  
Engine ground

  
John E. Shea

Shoreline Aviation Inc.  
93 Old Colony Lane  
Marshfield, MA., 02050  
1-781-837-8521

N#: 631A

Date: 11-26-2003 Hobbs: 464.8

Drained oil, took oil sample, removed and inspected, oil filter ok.  
Installed new CH48110 filter and saftied. Serviced oil with 11 qts Phillips  
X/C 20w-50 Engined run up leak checked ok.

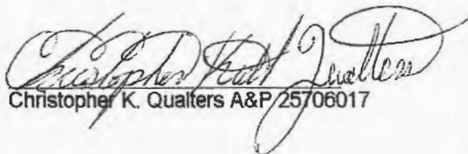
Signature	Certificate No.

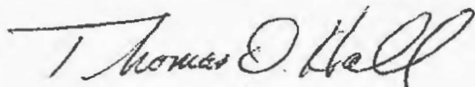
Shoreline Aviation Inc.  
93 Old Colony Lane  
Marshfield, MA., 02050  
1-781-837-8521

N#: 531A ser.#: 3267160 Eng.TT: 473.8

Date: 04-01-2004 hobbs: 473.8 ACTT: 473.8

Completed annual inspection this date I/A/W FAR 43 appendix D and  
piper inspection form 230-2047 as a guide. Drained oil, took sample.  
Inspected filter and screen ok. Installed and saftied new oil filter ch48110  
-1. Compression as follows #1 74/80 #2 76/80 #3 76/80 #4 78/80 #5 72  
/80 #6 78/80. C/W 500hr mag inspection. C/W AD 84-26-02 installed  
new engine air filter. C/W AD 2002-26-01 fuel line inspection ok.  
Remove and installed new stater P/N 14924PM. Serviced engine with  
12qts of Phillips X/C 20W/50. Aircraft run up and leak check ok. I certify  
that this engine has been inspected in accordance with an Annual  
inspection and was determined to be in airworthy condition.

  
Christopher K. Qualters A&P 25706017



Thomas D. Hall A&P 2351789 IA

12 qts.  
used filter

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N# : N531A

Date: 04-15-2003 Hobbs: 350.1

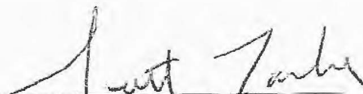
Drained oil, added 11 qts. Phillips X/C 20w-50 oil. Installed and saftied a new CH48110 oil filter. Inspected filter elementOK. Sample taken for analysis. Runup and leak check OK.

Maintenance

N# : 631A

Date: 11-26-03

Drained oil  
Installed new  
X/C 20w-50

  
Scott Tarbox A+P 2660779

Shoreline Aviation Inc.  
93 Old Colony Lane  
Marshfield, MA., 02050  
1-781-837-8521

N# : N531A

Date: 07-15-2003

Hobbs: 392.8

Drained oil, Installed new CH48110 oil filter and saftied. Added 12 qts. Phillips X/C 20W50 oil. Drew oil sample for analysis. Cut open used filter and no contamination noted. Engine run up o.k. No leaks noted.

  
Christophe

Total To Carry Forward	

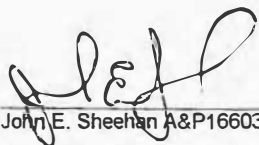
  
Scott Tarbox A&P 2660779

**Shoreline Aviation Inc.**  
93 Old Colony Lane  
Marshfield, MA., 02050  
1-781-837-8521

**N#:** 531A      **ser#:** 3257160      **EngTT:** 335.5

**Date:** 03-12-2003      **hobbs:** 335.5      **ACTT:** 335.5

Installed new sloped controller p/n 48B22488 s/n GBN00236 (s/n off DCN7638). Engine run up and operational check O.K. with no oil leaks noted. See FAA form 8130-3 for more info.



John E. Sheehan A&P16603796IA

Signature

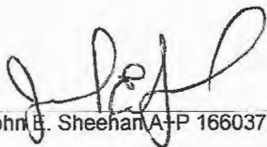
Certificate No.

Shoreline Aviation, Inc.  
 93 Old Colony Lane  
 Marshfield, MA 02050  
 781-837-8521

N# : N531A      Ser. #: 3257160      Eng.TT: 333.6  
 Date: 03-07-2003      Hobbs: 333.6      ACTT: 333.6

Maintenance

Completed Annual inspection per FAR 43, appendix D using Piper form 230-2047 as a guide. This engine reinstalled into PA32R-301T, s/n 3257160 per the maintenance manual after rework at the Lycoming Factory as shown on the previous page. Engine serviced with 12 qts. Phillips X/C 20w-50 oil. Engine ground runup and functional check OK with no fuel or oil leaks noted. I certify that this engine has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.



John E. Sheehan A+P 16603796 IA

<b>Total To Carry Forward</b>				

N# 531A

Date: 03-

Install  
 /n off D  
 no oil le



John E.



and Remarks	Signature	Certificate No.
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# LYCOMING

A Textron Company

652 Oliver Street  
Williamsport, PA 17701

02/15/03 Engine s/n L-10619-61A was removed from service with 333.6 TT and returned to Textron Lycoming for inspection/repair in compliance with SB552. Engine was disassembled, cleaned, and inspected. Engine was reassembled replacing the crankshaft with s/n V537930602, one (1) camshaft and gear assembly, one (1) oil pump impeller, one (1) oil sump baffle, and one (1) intake pipe flange. Cylinders #1, 2, 3, 4, 5, and 6 were honed replacing springs. Also replaced were two (2) counterweight rollers, two (2) intake pipes, all bearings, all tappets, all piston rings, all hardware necessary for the repair and all perishable items. Engine was tested in accordance with Textron Lycoming specifications and is determined to be in an airworthy and safe operating condition. Additional service bulletins and instructions complied with 240S, 342D, 475C (91-14-22), 552 (2002-19-03), 554, 555, SI 1267C, 1424, and 1487. All pertinent data relating to this work is on file at Textron Lycoming under work-order CA10619.

M. A. Stepanski, Repairman # 388629144  
Repair Station EJ1R15K



END

JAMES RESOURCERS, INC. 314-995-0000

Carry Forward

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N# : N531A

Date: 07-30-2002 Hobbs: 319.6

Drained oil, added 11 qts. Phillips X/C 20w-50 oil. Installed and saftied a new CH48110 oil filter. Inspected filter element OK. Sample taken for analysis. Runup and leak check OK.

*Scott Take*  
Scott Tarbox A+P 2660779

Shoreline Aviation Inc.  
93 Old Colony Lane  
Marshfield, MA., 02050  
1-781-837-8521

ENGINE LOG

N#: 531A

ser#: 3257160

EngTT: 333.6

Date: 09-13-2002

hobbs: 333.6

ACTT: 333.6

Removed engine I/A/W S/B 552.

*James Asadoorian Jr.*  
James Asadoorian Jr. A&P31308880

IATA FOR TRAINING USE ONLY

02/15/03 Eng  
inspection/ref  
replacing the  
sump baffle, &  
two (2) count  
repair and all  
bc in an airw  
475C (91-14:  
Textron Lyco




onc

Shoreline Aviation, Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: **N531A** Ser. #: **3257160** Eng.TT: **268.2**  
Date: **05-09-2002** Hobbs: **268.2** ACTT: **268.2**

1) This engine reinstalled in N531A, s/n 3257160 per Piper Maintenance manual. All engine components were reinstalled in "as removed" condition except for any items shown on the previous page. AD 2002-04-51 considered COMPLETE. Engine serviced with Phillips X/C 20w-50 oil. Ground runup and functional check OK with no fuel or oil leaks noted.



John E. Sheehan A+P 16603796 IA

Signature	Certificate No.

# ENGINE LOG

Engine Time

Recorder

**TEXTRON** Lycoming

652 Oliver Street  
Williamsport, PA 17701

N#: N53

Date: 05

1) Thi  
Mainte  
reinst  
shown  
COMF  
Groun  
leaks

04/18/02 Engine s/n L-10619-61A was removed from service with 268.2 TSN and returned to Textron Lycoming for inspection/repair due to SB550. Engine was disassembled, cleaned, and inspected. Honed cylinders. Reassembled engine replacing crankshaft with serial number V537924873, crankshaft gear, prop governor idler gear and shaft, oil sump baffle, all bearings, oil pump impellers, piston rings, valve springs, and all hardware necessary for the repair and all perishable items. Engine was tested in accordance with Textron Lycoming specifications and is determined to be in an airworthy and safe operating condition. Additional service bulletins and instructions complied with 240R, 342D (92-12-10), 475B (91-14-22), 1487, 1424, and 550. All pertinent data relating to this work is on file at Textron Lycoming under work-order CK10619.

*S.F. Ellis*

S. F. Ellis Repairman #2414657

Repair Station EJ1R115K

END

*Johd I*

Total To Carry Forward				
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ENGINE LOG

Engine Time

Recorder

**TEXTRON** Lycoming

652 Oliver Street  
Williamsport, PA 17701

N#: N53  
Date: 05

1) Thi  
Mainte  
reinsta  
shown  
COMF  
Groun  
leaks

04/18/02 Engine s/n L-10619-61A was removed from service with 268.2 TSN and returned to Textron Lycoming for inspection/repair due to SB550. Engine was disassembled, cleaned, and inspected. Honed cylinders. Reassembled engine replacing crankshaft with serial number V537924873, crankshaft gear, prop governor idler gear and shaft, oil sump baffle, all bearings, oil pump impellers, piston rings, valve springs, and all hardware necessary for the repair and all perishable items. Engine was tested in accordance with Textron Lycoming specifications and is determined to be in an airworthy and safe operating condition. Additional service bulletins and instructions complied with 240R, 342D (92-12-10), 475B (91-14-22), 1487, 1424, and 550. All pertinent data relating to this work is on file at Textron Lycoming under work-order CK10619.

*S. F. Ellis*  
S. F. Ellis Repairman #2414657  
Repair Station EJ1R115K

END

*Joh*  
Joh

Total To Corry Forward				
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Shoreline Aviation Inc.  
93 Old Colony Lane  
Marshfield, MA., 02050  
1-781-837-8521

N#: 531A ser.#: 3257160 Eng.TT: 268.2  
Date: 03-07-2002 hobbs: 268.2 ACTT: 268.2

Engine removed for Lycoming Service Bulletin 550. Engine Total Time is 268.2 hours.

Signature

Certificate No.

  
James Asadoorian Jr. A&P31308880

Shoreline Aviation, Inc.  
 93 Old Colony Lane  
 Marshfield, MA 02050  
 781-837-8521

N# : N531A Ser. #: 3257160 Eng.TT: 250.2  
 Date: 12-20-2001 Hobbs: 250.2 ACTT: 250.2

Maintenance

N#: 531A  
 Date: 03-07-20  
 Engine remo:  
 268.2 hours.

Completed Annual inspection per FAR 43, App. D using Piper form 230-2047 as a guide. Drained oil, added 11 qts. Phillips X/C 20w-50 oil. Installed and saftied a new CH48110 oil filter. Inspected oil filter element and suction screen OK. Sample taken for analysis. Oil Cooler winterization plates installed. Cyl. Comp.: 1) 76/80 2) 75/80 3) 75/80 4) 76/80 5) 75/80 6) 77/80. CW AD 93-02-05 on fuel lines per Lyco SB 342D - no defects noted - next due at next Annual or 100 hr. insp. or any fuel line work. Retensioned alternator and air conditioning drive belts. Engine ground runup and functional check OK with no fuel or oil leaks noted. I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

*Edward J. Novak Jr.*  
 Edward J. Novak Jr. A+P 22445833 IA

*James Asack*  
 James Asack

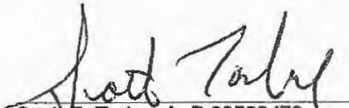
Total To Carry Forward				

Shoreline Aviation Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: N531A

Date: 05-29-2001 Hobbs: 172.6

1) Drained oil, added 11 qts. Phillips X/C 20w-50 oil. Installed and saftied a new CH48110 oil filter. Inspected filter element OK. Runup and leak check OK. Sample taken for analysis. Removed oil cooler winterization plates.

  
Scott E. Tarbox A+P 29588472

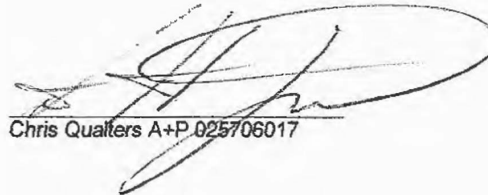
Signature	Certificate No.

Shoreline Aviation Inc.  
93 Old Colony Lane  
Marshfield, MA 02050  
781-837-8521

N#: N531A

Date: 09-01-2001 Hobbs: 211.1 ACTT: 211.1

1) Drained oil, added 11 qts. Phillips X/C 20w-50 oil. Installed and saftied a new CH48110 oil filter. Inspected filter element OK. Runup and leak check OK. Sample taken for analysis.

  
Chris Qualters A+P 025706017



Shoreline Aviation Inc.  
 93 Old Colony Lane  
 Marshfield, MA 02050  
 781-837-8521

N#: 531A Ser. #: 3257160 Eng. TT: 122.3  
 Date: 12-05-2000 hobbs: 122.3 ACTT: 122.3

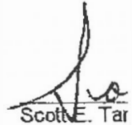
Maintenance

Completed Annual insp. in accordance with FAR 43, App. D using Piper insp. form p.n. 230-2047 as a guide. Cyl. comp. #1 74/80, #2 74/80, #3 76/80, #4 74/80, #5 76/80, #6 76/80. Drained oil, added 11 qts. Aeroshell 15W/50 oil. Installed and safetied CH48110 filter. C.W. AD93-02-05 - no defects noted - next due at next annual or 100 hr. or next fuel line work. Engine run up and functional check OK with no fuel or oil leaks noted. I certify that this Engine has been inspected in accordance with an Annual insp. and was determined to be in airworthy condition.



John E. Sheehan A&P 16603796/A

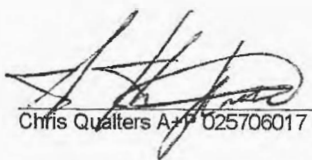
N#: N531A  
 Date: 05-29-01  
 1) Drained  
 safetied a new  
 and leak checked  
 winterization



Scott E. Tar

Total To Carry Forward			

enance

and Remarks	Signature	Certificate No.
<p style="text-align: center;"><b>Shoreline Aviation Inc.</b> 93 Old Colony Lane Marshfield, MA 02050 781-837-8521</p>		
<p><b>N#:</b> N531A <b>Date:</b> 10-23-2000   <b>Hobbs:</b> 83.0</p>		
<p>Drained oil, added 11 qts. Aeroshell 15w-50 oil. Installed and saftied a new CH48110 oil filter. Inspected filter element OK. Sample taken for analysis. Runup and leak check OK. Installed oil cooler winterization plates per Piper Service Bulletin 1018A.</p>		
<p style="text-align: center;"> Chris Qualters AIP 025706017</p>		

## ENGINE LOG

Date	Engine Time		Recorder Reading	Maintenance	and Re
	This Date	Since Major			



N 531A

Date: 8-4-00 Time: 71.7 hobbs

Changed oil & filter this date.  
 Serviced with 12 qts Shell 15w50 oil  
 & CH48110 filter. Runup & leak check  
 good.

With respect to the work performed and described  
 above this aircraft is approved for return to service.

*Chris Jones*

**Eastern Air Center  
 Norwood Airport  
 Norwood, MA 02062**

A+P 457455367

N#: N531  
 Date: 10-  
 Drained  
 new CH  
 analysis  
 plates p

Chris Q

Total To Carry Forward			
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COMPLIANCE WITH FAA AIRWORTHINESS DIRECTIVES ON ENGINE AND ACCESSORIES

COMPL

A. D. No. and Date	Item	Method of Compliance (See Log for Details)	Time on Engine	Date of Compliance	Signature and Certificate No.
2002-04-51		Crankshaft RTR by Lycoming (S135-50)	268.2	5/9/02	

A. D. No and Date

ENGINE DESCRIPTION

LYCOMING - WILLIAMSPORT, PENNA.  
Manufacturer: \_\_\_\_\_

Serial No. L-10619-61A

Horsepower: 300

Model: T10-540-AH1A

FAA T. C. No. E14EA

Engine Accessories	Serial No.	Weight

LY  
Manuf

Model:

NOTICE

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

THIS ENGINE SERVICED WITH  
AEROSHELL 15W50  
OIL AT THE PIPER FACTORY

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# OWNER

NAME	ADDRESS	Installed in Aircraft No.	Date
1		N531A	JUL 19 2000
2			
3			
4			
5			
6			

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

## NEW RECIPROCATING ENGINE CERTIFICATE

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

MODEL TIO-540-AH1A SERIAL NO. L-10619-61A  
DATE 5-25-00 R. K. [Signature]  
(AUTHORIZED REPRESENTATIVE)

**TEXTRON** Lycoming

552 Oliver Street  
Wilkes-Barre, PA 17701 U.S.A.