

N601SH

MIDSTATES AIRCRAFT  
ENGINES, INC.

*The Standard*



ENGINE LOG

inspe  
current regulations of  
Federal Aviation  
Administration and approved  
for return to service.  
Pertinent details on file at  
this repair station.

OF  
(S.)

*α*  
*ockets*

DATE

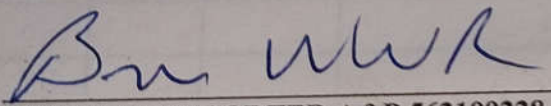
19\_\_

**DATE 08/10/2005**

**HOBBS: 1785.7**

**TSMOH:0**

THIS ENGINE MODEL IO-540-P1A5 SN L-7935-48 MAJOR OVERHAULED THIS DATE IN ACCORDANCE WITH LYCOMING OVERHAUL MANUAL PN 60294-7. ENGINE WAS DISASSEMBLED, CLEANED, AND VISUALLY INSPECTED. THE FOLLOWING ITEMS WERE SENT OUT FOR INSPECTION, OVERHAUL, AND CERTIFICATION: CRANKCASE, CRANKSHAFT, CAMSHAFT(ORIGINAL REJECTED AND A REPLACEMENT WAS SUPPLIED), CONNECTING RODS, COUNTERWEIGHTS, CRANK GEAR, CAM FOLLOWERS, HYDRAULIC UNITS, ALL INTERNAL STEEL, AND OIL COOLERS. CYLINDERS WERE INSPECTED, OVERHAULED, CERTIFIED, AND ASSEMBLED BY J&J AIRPARTS, INC. SEE TAGS ON ALL CERTIFIED ITEMS. ENGINE WAS ASSEMBLED WITH THE FOLLOWING NEW ITEMS: MAIN AND ROD BEARINGS, ROD BOLTS AND NUTS, CRANKSHAFT HARDWARE, ALL INTERNAL HARDWARE, GASKETS AND SEALS, OIL TEMP CONTROL VALVE, OIL PRESSURE CONTROL SPRING, SPARK PLUGS, IGNITION HARNESS, OIL PUMP HOUSING, OIL PUMP IMPELLERS, OIL PUMP DRIVE SHAFT, ALL LOCKING TABS AND WASHERS. MAGNETOS AND TURBOS WERE OVERHAULED AT THIS TIME. ENGINE WAS INSTALLED WITH NEW LORD MOUNTS, EXHAUST GASKETS, TURBO GASKETS AND SERVICED WITH AEROSHELL 100 STRAIGHT MINERAL OIL FOR BREAK IN. ENGINE WAS TEST RUN WITH ALL INDICATIONS GOOD. ALL AD'S COMPLIED WITH AT THIS TIME. ....END.



**BRUCE MCWHORTER A&P 562199228**  
**DEVINE ENGINE & AIRFRAME, INC.**  
**800-988-3212**

**Maintenance Release**  
 The aircraft, airframe, engine, propeller or other parts identified on back has repaired and is returned in accordance with all regulations of the Federal Aviation Administration and approved return to service. In detail on file at repair station.

1031  
 31-1-05

**DATE 08/10/2005 HOBBS: 1786.0**  
 THIS ENGINE MODEL IO-540-P1A5 SN L-7935-48 INSPECTED IN ACCORDANCE WITH A 100HR INSPECTION AND FOUND TO BE AIRWORTHY.....END.

*Bruce McWhorter*  
 BRUCE MCWHORTER A&P 562199228  
 DEVINE ENGINE & AIRFRAME, INC.  
 800-988-3212

**OCTOBER 19, 2005 ANNUAL INSPECTION Left Engine**  
 HOBBS 1790.2 HRS  
 TSOH 4.2 HRS

1. This engine Was inspected I/A/W the Piper Maintenance Manual annual inspection, requirements.
2. Found oil leaks on both turbo chargers, tightened fittings, cleaned engines, leaked checked.
3. All AD's have been complied with at this time.

I certify that this engine has been inspected I/A/W the Piper Maintenance Manual annual inspection requirements and have determined this engine to be in airworthy condition at this time.

MID SOUTH AVIATION INC., Albertville, Al.  
 A&P 418647214 IA Wayne Whisenant

*Wayne Whisenant*

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS <small>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)</small>
				N601SH Lycoming IO540-P1A5 Hobbs: 1799.1 01/12/06 S/N L-7935-48 TSMOH: 13.4 LEFT Right Engine. Changed oil and oil filter with Champion CH48110-1 and 12 qts Aeroshell 100W. Ran engine to leak check, no leaks noted. <i>D. Turner</i> 3071763 D. Turner, Owner/Pilot, 3071763
				N601SH Lycoming IO540-P1A5 Hobbs: 1821.2 10/26/06 S/N L-7935-48 TSMOH: 35.5 LEFT Right Engine. Changed oil and oil filter with Kelt Aerospace ES48110 and 12 qts Aeroshell 100W. Ran engine to leak check, no leaks noted. <i>D. E. Turner</i> D. Turner, Owner/Pilot, 3071763

Maintenance Release  
The aircraft, airframe, engine, propeller or other identified or visible part of the aircraft must be returned and in accordance with the Federal Aviation Administration and approved repair facility, after the completion of the repair or alteration, to the operator or the owner of the aircraft.

2021  
John Lee  
AP252519665IA

DATE 2009 12  
RECORDING TACH TIME  
TODAYS FLIGHT  
TOTAL TIME IN SERVICE  
DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS  
ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

11-10 Hobbs 1598.3  
750 127.6  
660<sup>78</sup> 780<sup>78</sup> 800<sup>78</sup> 820<sup>78</sup> 840<sup>78</sup> 860<sup>78</sup> 880<sup>78</sup>  
Changed oil and Filter. Serviced with 10qts  
Aircraft 100 and 14/14/02 additive. Washed  
engine and cooling. Replaced air filter.  
Adjusted magneto timing. Cleaned, gapped and  
tested sparkplugs. Replaced manifold pressure  
hose. Cleaned fuel nozzles. AD 96-01-02 Tailsec.  
inspection ok, due again in 50hrs AD 2003-14-03  
Fuel Pump inspection ok, due again in 50hrs AD  
2008-14-07 Fuel Lines and Clamps inspection ok,  
due again in 100hrs. AD 2008-02-03 Hex Plug "E"  
on plugs.

I certify that this aircraft Engine has been inspected in accordance with a Annual inspection and was determined to be in airworthy condition. pertinent details of the repair are on file at the repair station. Work Order No. signed John Lee 19204499

DATE 19  
RECORDING TACH TIME  
TODAYS FLIGHT  
TOTAL TIME IN SERVICE  
DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS  
ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)

2/7/11 1922.9 Tach  
137.2 Tsmoth  
changed oil & filter, serviced w/ A/S100w.  
Cleaned/gapped/rotated plugs, replaced Air Filter,  
Performed compression test: #1 78, #2-74, #3-77,  
#4-77, #5-77, #6-76/80 PSI. Checked mag  
timing, Adjusted idle & Idle mixture. c/w AD  
96-01-02 I/ALW Piper S.B. 920. Removed Ex pipes &  
Wastegates, cleaned & inspected w/ Dye Penetrant. Lubed  
Turbo's w/ Mousse Milk, installed Pipes w/ CGA, insta  
oil new gaskets on Turbo's & wastegates - Performed  
operational check on wastegate control. Torqued clamps  
Safetyed - due again by 1972.9. c/w AD 2003-  
03 by insp - due again by 1972.9. c/w AD 2008-14-07 by  
insp - due again by 2022.9. Performed Run-up/Leak check

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

John Lee  
AP252519665IA

Maintenance Release

The aircraft, airframe, engine, propeller or appliances identified on back was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and approved for return to service. Permanent details on file at this repair station.

ON WORK SHEET 3031  
Signature: *[Signature]*  
Date: 12/21/14

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
11/16/14	156.4 TSMoH			Performed compression: #1-77, #2-78, #3-76, #4-77, #5-79, #6-73/80psi. cleaned/gapped/Rotated plugs, checked mag timing. Replaced seal & gasket on #3 cylinder. Tightened all valve cover screws. C/w AD 2003-14-03 by Torque check on fuel pump due again by 1992.1. C/w AD 2011-26-04 by inj. line insp - due again by 2042.1 Tach. AD 2012-03-06 N/A by no Avstar Equipment or Service. Cleaned Eng & Performed Run-up/leak check.
				I certify that this Engine has been inspected <del>N/A</del> an Annual inspection and was determined to be in airworthy condition. <i>[Signature]</i> IA 2621425
4/3/13	164.0 TSMoH			Change oil & Filter, serviced w/ A/S 100w. cleaned/gapped/Rotated plugs, Checked mag timing. Performed compression: #1-78, #2-75, #3-76, #4-77, #5-79, #6-75/80psi C/w AD 90-01-02 by Dyc Penetrant insp

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
cont →				Due again by 2000.5. C/w AD 2003-14-03 by fuel pump Insp - due again by 2000.5. C/w AD 2011-26-04 by Fuel inj. line insp - due again by 2050.5. AD 2012-19-01, crankshaft N/A by suspect crank not installed. Cleaned Eng & Performed Run-up/leak check.
				I certify that this Engine has been inspected IAW an Annual inspection and was determined to be in airworthy condition.
7/12/14	185.6 TSMoH			Performed compression: #1-76, #2-78, #3-78, #4-79, #5-78, #6-75/80psi. Replaced air filter, cleaned/gapped/Rotated plugs, checked mag timing. Replaced oil drain fitting on I/B Turbo. Replaced gasket & seal on #5 Intake tube, new no-blo gaskets on RH Ex manifold. C/w AD 2003-14-03 - due again by 2020.7. C/w AD 2011-26-04 - due again by 2020.7

cont →

**Maintenance Release**

The aircraft, airframe, engine, propeller or appliance identified on back was repaired and is inspected in accordance with Federal Aviation Administration and approved in return to service. Prerequisite details on file at this repair station.

Date: 10/5/16  
Signature: [Signature]  
Title: [Signature]

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS <small>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)</small>
cont →				cleaned Eng; performed run-up/leak check  I certify that this Engine has been inspected IAW an Annual Inspection and was determined to be in airworthy condition Matthew IA 2609877
8/4/15	1980.0	4 hrs	1943 TSMOH	changed oil & filter serviced w/ A/S w/100 changed air filter Performed Compression: #1-79 #2-78 #3-79 #4-79 #5-78 #6-77 /80 psi. Cleaned/gapped Plugs. Checked mag timing. C/W AD 2003-14-03 by fuel pump insp - due again by 2030.0 C/W AD 2011-26-04 by F.I. line insp - due again by 2080.0. AD 90-01-02 Tail pipe, P/C/W & due by 2020.7 cleaned Eng; Performed Run-up/leak check.  I certify that this Engine has been inspected IAW an Annual Inspection and was determined to be in airworthy condition Matthew IA 2609877

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS <small>ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)</small>
10/5/16		2005.9 Hour	220.2	Changed oil & filter, cut filter & insp. Performed Compression: #1-77 #2-78 #3-79 #4-77 #5-77 #6-78 /80 psi. cleaned/gapped/ Rotated plugs, changed air filter, checked mag timing. Installed new seal in #3 intake C/W AD 2003-14-03 by fuel pump insp - due again by 2055.9 C/W AD 90-01-02 by turbo fx parts Dye Penetrant insp - due again by 2055.9 C/W AD 2015-19-07 by ign line insp - due again by 2115.9. cleaned Eng & Performed Run-up/leak check.  I certify that this Engine has been inspected IAW an Annual Inspection and was determined to be in airworthy condition Matthew IA 2609877

**Maintenance Release**  
 The aircraft, airframe, aircraft engine, propeller or appliance identified on back was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and approved for return to service. Personnel details on file at this repair station.

CA 171W 2031  
 Signature: *[Signature]*  
 Date: 12/16/19

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
------	---------------------	---------------	-----------------------	--

**Mountain Side Aviation, Inc: N601SH, LH Engine:**

11/01/17 Hobbs: 2017.7 TSMOH: 232.0  
 Changed air filter, performed compression: #1-78, #2-78, #3-79, #4-77, #5-77, #6-79 /80 psi. Checked mag timing, cleaned/gapped/rotated plugs. Replaced Manifold pressure line with new hose at engine. C/W AD 2003-14-03 by insp - due 2067.7. C/W AD 2015-19-07 by insp - due 2127.7. AD 2017-16-11 N/A by Table 1 & 2 in SB632B. Performed run-up/leak check.

I certify this engine has been inspected I/A/W an Annual Inspection and was determined to be in airworthy condition.

*Lamm Math* IA 2609877

12/4/19	2024.5	Tach	Changed oil & filter, cut filter & insp
	238.0	TSMOH	Serviced w/ Aeroshell 100w plus. Changed air filter performed compression: #1-79 #2-77 #3-78 #4-78 #5-79 #6-79/80 psi. Cleaned/gapped/rotated plugs. C/w AD 2003-14-03 Fuel Pump, due again by 2074.5. C/w AD 2015-19-07 Fuel Inj lines, due again by 2134.5 Hobbs. Performed Run-up/Leak check. Cont →

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
------	---------------------	---------------	-----------------------	--

Cont →

certify that this Engine has been inspected I/A/W an Annual Inspection and was determined to be in airworthy condition

*Lamm Math* IA 2609877

**Mountain Side Aviation, Inc: N601SH, LH Engine:**

12/16/19 Hobbs: 2037.4 TSMOH: 251.7  
 Changed air filter, performed compression: #1-79, #2-78 #3-78, #4-75, #5-78, #6-76 /80 psi. Checked mag timing, cleaned/gapped/rotated plugs. C/W AD 2003-14-03 - due again by 2087.4. C/W AD 2015-19-07 - due again by 2147.4 Performed run-up/leak check.

I certify this engine has been inspected I/A/W an Annual Inspection and was determined to be in airworthy condition.

*Lamm Math* IA 2609877

1/02/21	2039.2	Hobbs	Cleaned plugs, replaced air filter
	253.5	TSMOH	Performed compression: #1-78 #2-77, #3-77 #4-74 #5-76 #6-77/80psi. Checked mag timing. C/w AD 2003-14-03 - due again by 2089.2 Hobbs. Cont →

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	DESCRIPTION OF INSPECTIONS, TESTS, REPAIRS AND ALTERATIONS ENTRIES MUST BE ENDORSED WITH NAME, RATING AND CERTIFICATE NUMBER OF MECHANIC OR REPAIR FACILITY. (SEE BACK PAGES FOR OTHER SPECIFIC ENTRIES.)
				<p>Cont → C/W AD 2015-19-07 - due again by 2149.2 Hobbs. Performed Run-up/leak check. I certify that this Engine has been inspected I/AW an Annual inspection and was determined to be in airworthy condition</p> <p>Sumner Math IA 2609877</p>
1/10/22			<p>2051.9 Hobbs 2662 Tsmott</p>	<p>changed oil &amp; filter, cut filter &amp; inspected serviced with Aeroshell 100w. cleaned/gapped/ rotated plugs performed compression: #1-79 #2-74 #3-70 #4-72 #5-77 #6-74/80 Psi. changed air filters checked mag timing. Lubed w/strat Lubed Eng controls. C/W AD 2003-14-03 by fuel pump Insp - due again by 2101.9 Hobbs. C/W AD 2015-19-07 by F.I. line Insp - due again by 2161.9</p> <p>I certify that this Engine has been inspected I/AW an Annual inspection and was determined to be in airworthy condition</p> <p>Sumner Math IA 2609877</p>