

N601SH

MIDSTATES AIRCRAFT
ENGINES, INC.

The Standard

 **ENGINE LOG**

DATE

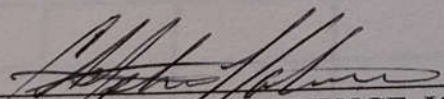
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DATE 08/10/2005

HOBBS: 1785.7

TSMOH:0

THIS ENGINE MODEL IO-540-P1A5 SN L-7924-48 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 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.


CHRISTOPHER LAWRENCE JOHNSON A&P 2680033
DEVINE ENGINE & AIRFRAME, INC.
800-988-3212

DATE

19__

DATE 08/10/2005 HOBBS: 1786.0

THIS ENGINE MODEL IO-540-P1A5 SN L-7924-48 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 Right 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 engine and leaked checked.
3. Replaced intake port plugs on #1 and #4 cylinders.
4. All AD's have been complied with at this time.

I certify that that this engine was inspected I/A/W the annual inspection requirements found in the Piper Maintenance Manual 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>
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				N601SH Lycoming IO540-P1A5 Hobbs: 1799.1 <i>Right</i> Left 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 3071763</i> D. Turner, Owner/Pilot, 3071763
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				N601SH Lycoming IO540-P1A5 Hobbs: 1821.2 <i>Right</i> Left Engine. Changed oil and oil filter with Kelly 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
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DATE 2008	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.)
1-5	Hobbbs T50	1524 3-7	410	<p>2100⁷⁸⁰@2100⁷⁸⁰@2100⁷⁸⁰@2100⁷⁸⁰@2100⁷⁸⁰@2100⁷⁸⁰</p> <p>O.I. was not changed at this time. Cleaned gapped and tested sparkplugs. Checked magneto timing. Washed engine and cooling. Replaced air filter. AD90-0102 Exhaust inspection due again in 50 hrs. AD 2002-2-01 Fuel lines inspection due again in 100 hrs. AD 2002-14-03 Fuel Pump leak check due again in 50 hrs.</p> <p>DATE <u>1-5-07</u> T.Y. <u>---</u> I Certify that this aircraft engine has been inspected in accordance with a <u>P. Hobbbs</u> inspection and was determined to be in airworthy condition. Pertinent details of the repair are on file at the repair station under Work Order No. <u>1A2044199</u></p>

DATE 2008	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.)
3-17	Hobbbs T50	1559.1 72.4	481.4	<p>2100⁷⁸⁰@2100⁷⁸⁰@2100⁷⁸⁰@2100⁷⁸⁰@2100⁷⁸⁰@2100⁷⁸⁰</p> <p>Changed oil and filter. Serviced with 12 qts. Marshall 480 and 1610707 additive. Cleaned, gapped and tested sparkplugs. Checked magneto timing. Replaced air filter. Replaced P lead insulator boots. Cleaned fuel nozzles AD90-0102. Inspected fuel pump due inspection again in 50 hrs. AD 2002-2-01 Fuel lines and clamps inspection due again in 100 hrs. AD 2002-14-03 Fuel Pump leak check due again in 50 hrs.</p> <p>DATE <u>3-17-08</u> T.Y. <u>---</u> I Certify that this aircraft engine has been inspected in accordance with a <u>P. Hobbbs</u> inspection and was determined to be in airworthy condition. Pertinent details of the repair are on file at the repair station under Work Order No. <u>1A2044199</u></p>

DATE 3-17-08 T.Y. ---
I Certify that this aircraft engine has been inspected in accordance with a P. Hobbbs inspection and was determined to be in airworthy condition. Pertinent details of the repair are on file at the repair station under Work Order No. 1A2044199

DATE RECORDING TACH TIME TODAY'S 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 1002.3
TSC 107.6
900 740 @ 740 @ 740 @ 740 @ 740 @ 740
Changed oil and filter. Serviced with 10 qts
Horsfall 4000 and 141622 additive. Checked
spark and cooling. Replaced air filter.
Checked gap and tested sparkplugs. Checked
magneto timing. Cleaned fuel nozzles. Replaced
fuel pressure oil screen. Replaced #2 cylinder
exhaust studs. Repaired minor oil leaks. AD 90-
01-02 Tailpipe inspection ok, due again in 50 hrs.
AD 2003-14-03 Fuel Pump Inspection ok, due again
in 50 hrs. AD 2008-14-07 Fuel Lines and Clamps 100 hrs
ok, due again in 100 hrs. AD 2009-02-03 Ign Plug
"E" stamped on the plug

I certify that this aircraft engine has been inspected
in accordance with a Annual
and was determined to be in airworthy condition.
Pertinent details of the repair are on file at the repair station.
Mech Work Order No. AP 154 # 112044199

DATE RECORDING TACH TIME TODAY'S 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 TSMO +
changed oil & filter, serviced w/ A/S base, performed
compression: #1-74, #2-74, #3-76, #4-78, #5-76,
#6-77/80 psi. changed air filter, checked mag
timing, cleaned/gapped/rotated plugs. Adjusted idle &
idle mixture. c/w AD 90-01-02 I/A/w Piper SB 920.
Removed Ex pipes & wastegates, cleaned & insp w/ dye
Penetrant. Lubed Turbos w/ Mousse Milk, installed pipes
w/ CSA, installed all new gaskets on Turbos & wastegates.
Performed operational check on wastegate control.
Tightened clamps & saftied - due again by 1972.9 tech. C/w
AD 2003-14-03 by msp - due again by 1972.9. C/w AD
2008-14-07 by nsp - due again by 2022.9. Performed
run-up/leak check. Tammie Math MP 2621425

I certify that this Engine has
been inspected I/A/w on fuel
inspection and was determined to
be in airworthy condition.
John F. Head
AP 252589665JA

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.)
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Mountain Side Aviation, Inc: N601SH, RH Engine:

12/14/11 Tach: 1940.2

Removed RH prop and installed new alternator belt. Reinstalled prop., torqued and safed.

Lammun Math

A&P 2621425

4/16/12
1942.1 Tach
156.4 TSMOH

Performed compression: #1-75, #2-73, #3-78, #4-76, #5-77, #6-78 / 80 psi. Checked mag timing. Cleaned/gapped/rotated plugs. Tightened all valve cover screws. c/w AD 2003-14-03 by Fuel Pump torque check - due again by 1992.1 tach. c/w AD 2011-26-04 by fuel inj. line insp - due again by 2042.1. 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 IAW an Annual Inspection and was determined to be in airworthy condition.

Lammun Math 2621425

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.)
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6/2/13 1950.5 Hobbes
164.8 TSMOH

changed oil & filter, serviced w/ AFS 100w. Performed compression: #1-76, #2-75, #3-76, #4-75, #5-75, #6-71/80psi. cleaned/gapped/rotated plugs, checked mag timing. c/w AD 90-01-02 by dye penetrant Insp - due again by 2002.5. c/w AD 2003-14-03 by Fuel pump Insp - due again by 2000.5. c/w AD 2011-26-04 by P.I. insp - due again by 2050.5. AD 2012-19-01, crank shaft, 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.

Lammun Math IA 260987

7/12/14 1970.7 Tach
185.0 TSMOH

Performed compression: #1-75, #2-72, #3-76, #4-75, #5-78, #6-78/80psi. changed filter, cleaned/gapped/rotated plugs.

cont →

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cont → Removed LH mag & reset main & retard contacts, installed an Eng w/ new gaskets & timed to eng, checked RH mag timing. Replaced TIT probe w/ new. c/w AD 2003-14-03 - due again by 2020.7. c/w AD 2011-26-04 - due again by 2020.7. cleaned Eng & performed Run-up/leak check

I certify that this Engine has been inspected I/AM an Annual inspection and was determined to be in airworthy condition

James Math JA 2609877

8/4/15

1980.0 Hobbs

194.3 TSMOH

Changed oil & filter, serviced w/ ALS 100w. Performed compression: #1-79, #2-76, #3-77, #4-79, #5-77, #6-79/psi. Changed Air filter, cleaned/gapped plugs checked mag timing. c/w AD 2003-14-03 by fuel pump insp - due by 2030.0, c/w AD 2011-26-04 by E.I. line Insp - due again by 2080.0. AD 90-01-02, tail pipe,

cont →

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cont →

P/C/w & is due by 2020.7. Cleaned Eng & performed Run-up/leak check.

I certify that this Engine has been inspected I/AM an Annual inspection and was determined to be in airworthy condition

James Math JA 2609877

10/5/16

2005.9 Hour

220.2 TSMOH

changed oil & filter, cut filter & insp. Serviced w/ ALS 100w. Performed compression #1-76 #2-75 #3-79 #4-75 #5-74 #6-77/psi. Checked mag timing, cleaned/gapped/rotated plugs. Replaced Air filter, soldered broken wire on Turbo Controller Motor @ limit switch. Replaced broken wire terminal on LH mag P Lead c/w AD 2003-14-03 - due again by 2055.9 c/w AD 90-01-02 by Dye Penetrant - due again by 2055.9 c/w AD 2015-19-07 - due again by 2115.9. Cle Eng & performed Run-up/leak check

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cont →				I certify that this <u>Engine</u> has been inspected I/A/W an Annual inspection and was determined to be in airworthy condition <i>Lamm Math</i> IA 2609877



Mountain Side Aviation, Inc: N601SH, RH Engine:

11/01/17 Hobbs: 2017.7 TSMOH: 232.0
 Changed air filter, performed compression: #1-75, #2-76, #3-76, #4-76, #5-78, #6-77
 /80 psi. Checked mag timing, cleaned/gapped/rotated plugs. Replaced #2 & 4 valve
 cover gaskets. 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

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.)
12/4/18	2024.5		238.8	Hobbs TSMOH Changed oil & filter, cut filter & inspected, serviced w/ Aeroshell 100w Plus. Performed compression: #1-70 #2-75 #3-76, #4-77 #5-79 #6-79/80 psi. changed air filter checked mag timing. Cleaned/gapped/rotated plugs C/W AD 2003-14-03 fuel pump, due again by 2074.5 Hobbs. C/W AD 2015-19-07 Fuel Inj line due again by 2134.5. Performed Runup/leak check. I certify that this <u>Engine</u> has been inspected I/A/W an Annual inspection and was determined to be in airworthy condition <i>Lamm Math</i> IA 2609877



Mountain Side Aviation, Inc: N601SH, RH Engine:

12/16/19 Hobbs: 2037.4 TSMOH: 251.7
 Changed air filter, performed compression: #1-68, #2-72 #3-75, #4-75, #5-75, #6-75 /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.

Curran MWA IA 2609877

1/02/2021 2039.2 Hobbs cleaned plugs, replaced air filter, 253.5 Tsmoh Checked mag timing. Performed compression: #1-66 #2-72 #3-77 #4-76 #5-77 #6-77/80 psi. Replaced #5' CHT probe under plug w/ new CHT C/W AD 2003-14-03 - due again by 2089.2 Hobbs. 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/A/W an Annual Inspection and was determined to be in airworthy condition

Curran MWA IA 2609877

1/18/22 2051.9 Hobbs Changed oil & filter, cut filter & inspected 2662 Tsmoh Serviced w/ Aeroshell 100w. Performed compression: #1-65, #2-72, #3-73, #4-72, #5-72, #6-74/80 psi. Cleaned/gapped/rotated plugs, changed air filter. Checked mag timing. Lubed eng controls, Luber wastegates. Enrichened idle mixture. 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 Hobbs. Performed Run-up/leak check.

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

Curran MWA IA 2609877