

2149J

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The Standard

ENGINE LOG

ASA-SE-2

Engine Record General Information

Manufacturer LYCOMING Model O540-J3A5D

Serial L-20773-40A Type Certificate E-295

This engine is currently installed in aircraft: N2149J

Minimum Octane Fuel 100LL Oil Grade Summer _____ Winter _____

Magneto Time _____ Point Setting _____ Firing Order _____

Spark Plug Gap _____

Manufacturer's Recommended Overhaul at 2000 hours

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| DATE 2001 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 Technician or Repair Facility. (See back pages for other specific entries.) |
|--------------------|---------------------------|------------------|-----------------------------|---|
| | 462 | | | INSTALLED NEW CRANKSEAL 2W/11 |
| 11/15 06/20/02 | 486 0501.9 | | 2005.5 | Changed oil Replaced with 11qt 2050 xc SMOH 80.9 Compression checked 1 ²⁵ 2 ²⁶ 3 ²⁶ 4 ²⁷ 5 ²⁴ 6 ²⁸ Mag timing checked, plugs cleaned, gaps checked tested OK, Oil changed 10qts Phillips 20W50 added, Oil Filter changed old filter checked OK, #13#3 exhaust gaskets changed, I certify that this engine has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition. Duane J. Jolly AP379485332JA |
| 07/01/2003 | 538.6 | | 2042.2 2042.2 | BSMOH 117.6 COMPRESSION CHECKED - ALL 70 OR BETTER OVER 80. CLEANED, GAPPED + SPARK TESTED plugs. INSPECTED FUEL SCREENS. REPLACED CH48103 OIL FILTER - INSPECTED OLD FILTER; NO METAL FOUND. DID NOT CHANGE OIL <CONT. NEXT PAGE> |

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|------------|---------------------------|------------------|-----------------------------|---|
| 7/01/03 | 538.6 | | | <CONT. FROM PREVIOUS PAGE> AT THIS TIME DUE TO OIL CHANGE BY OWNER 3 HRS AGO. AIR FILTER ELEMENT CONDITION GOOD AD'S THROUGH THIS DATE CHECKED FOR COMPLIANCE + APPLICABILITY. ENGINE RUN-UP STATIC WAS @ RED LINE IN TACH, MAG DROPS GOOD, NO OIL LEAKS NOTICED. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED I.A.W. AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION ON THIS DATE. Timothy Wallen AP57454024JA |
| 7/01/03 | NOTE | AD | 02-12-07 | COMPLIANCE DUE BY OCT 1, 2003 Timothy Wallen 57454024JA |
| 11/9/03 | 555.0 | | | Oil Changed Replaced with 11qt 2050 xc Jim Sauer |

| POWERPLANT LOGBOOK | | | | |
|--------------------|-----------------------|---------------------------|------------------------------|---|
| DATE | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVERHAUL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED - SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
| 08/10/04 | 2079.8 | 155.2 | 576.2 | Performed a 100 hour inspection. Lubricated per chart. Compression checked 72,72,75,75,72,77/8 Mag timing checked. Installed 6 new plugs P/N RHM40E. All plugs Cleaned, gaps checked and tested ok. Installed 4 new spark lead springs P/N M2929. Changed oil & installed 12 qts. Phillips 20W50 added. Removed and inspected old oil filter and installed new oil filter P/N CH48103. Replaced oil filter converter plate gasket with new gasket P/N O6B23072 and marked plate in compliance with 2002-12-17. Replaced rocker cover gasket on # 5 cyl. |
| 5/04/05 | | | | I certify that this engine has been inspected IAW 100 hour inspection and was determined to be in airworthy condition. |
| | | | | Ken Vail 324786199A1P |
| | | | | I certify that this engine has been inspected IAW annual inspection and was determined to be in airworthy condition. |
| | | | | Ken Vail 324786199A1P |

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| DATE | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations |
|------|---------------------------|------------------|-----------------------------|---|
| 19 | | | | <p>Entries must be endorsed with Name, Rating and Certificate Number of (if applicable entries.)</p> <p>Date: 08/04/2005, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 ETT 2118.1, TSMOH 193.5, Tach 614.5</p> <p>***Engine***</p> <p>Completed 100 Hr inspection of engine. Changed oil and filter, serviced engine w/Phillips 20W50 oil. Cleaned and gapped spark plugs. Checked mag timing, cleaned fuel inlet screen on carb. Removed and cleaned oil sump pickup screen, checked ok. Washed engine w/solvent and lubed controls. Run-up and leak checked ok. No visible metal found in old filter. Adjusted engine low end mixture and idle speed. Run-up check, checked ok.</p> <p>AD 2004-10-14, effective date 6/25/2004, Lycoming crank bolt due at prop strike or engine O/H.</p> <p>AD 2005-12-06, effective date 6/6/2005, Mag impulse superseded AD 96-12-07. Due each 500 Hrs, due 922.0 Tach.</p> <p>I certify that this Engine has been inspected in accordance with an <u>100 Hour</u> inspection and determined to be in airworthy condition.</p> <p>Pertinent details are on file at this agency under W/O <u>05-33083</u>.</p> <p>Date: <u>8-4-05</u></p> <p>Signed <u>[Signature]</u></p> <p>Indianapolis Aviation Inc./Indianapolis Metropolitan Airport, 9913 Willowview Road Fishers IN 46038 FAA approved repair station #AIHR-109c</p> |

| DATE | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations |
|------|---------------------------|------------------|-----------------------------|--|
| 19 | | | | <p>Entries must be endorsed with Name, Rating and Certificate Number of (if applicable entries.)</p> <p>Date: 10/05/2005, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Tach 626.3</p> <p>***Engine***</p> <p>Removed prop gov, Hartzell model #F-4-21; s/n B5090U. Sent to Aircraft Propeller Service of Ohio for overhaul. See tag attached to airframe log entry. Re-installed prop gov w/new gasket. Run-up leak check, checked ok.</p> <p>The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # <u>05-33249</u> dated <u>10-5-05</u>.</p> <p>Signed <u>[Signature]</u></p> <p>Indianapolis Aviation, Inc./Indianapolis Metropolitan Airport 9913 Willowview Road, Fishers IN 46038 FAA Approved Repair Station #AIHR-109C</p> |

DA1 Date: 10/12/2005, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Tach 630.8
Engine
19_ Adjusted alternator belt alignment and tensioned.

Iterations
Number of
flight entries.)

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 05-33371 dated 10-12-05, signed [Signature]

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| DATE | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations |
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19_

Date: 01/17/2006, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061
Engine

AD 2005-26-10, effective 1/31/2006, ECI cylinders N/A per Lycoming cylinders p/n LW13870 installed.

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 06-33672 dated 1-17-06, signed [Signature]

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Description of Inspections, Tests, Repairs and
 Entries must be endorsed with Name, Rating and Certificate Number of
 Technician or Repair Facility. (See back pages for other specific entries.)

Date: 02/24/2006, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Tach 687.4

Engine
Removed starter, p/n MZ-4222R; s/n 3090980. Installed repaired like unit, s/n 10M000342.
Replaced air cond compressor bracket and alternator removed for access. Adjusted air
cond run-up check ok. 100325 Adjusted points. Re-set

Removed starter, p/n MZ-4222R, s/n 3078.
Re-installed air cond compressor bracket and alternator removed.
cond and alternator belt tensions. Ground run-up check ok.
Removed magneto and replaced impulse coupling, p/n 10-400325. Adjusted points. Re-set
mag internal timing. Re-installed magneto and timed to engine. Run-up and ops checks and
leak checks ok.

was repaired and inspected in

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 05-33409 dated 2-24-06, signed [Signature].
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Fishers IN 46038

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19

**RECO
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FLIGHT**

**TOTAL
TIME IN
SERVICE**

Description of Inspections, Tests, Repairs and Adjustments

RECORDING TACH TIME TODAY'S FLIGHT TOTAL TIME IN SERVICE - Entries must be endorsed with Name, Rating and Signature
Date: 03/07/2006, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Tach 707.0 Hobbs 1283.5
Phillips 20W/50 oil. Washed engine w/solvent and filter

Engine
Changed oil and filter. Serviced engine with Phillips 20W50 oil. Washed engine w/solvent and lubricated controls. Run-up and leak check ok. No visible metal found in old filter.

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 06-33537 dated 3-1-26, signed [Signature]
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IN 46038

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| DATE | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations |
|------|---------------------------|------------------|-----------------------------|--|
| 19 | | | | <p>Date: 06/27/2006, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Tach 760.0 Hobbs 1343.9</p> <p>***Engine***</p> <p>Changed oil and filter. Serviced engine with Aeroshell 15W50 oil. Washed engine w/solvent and lubricated controls. Run-up and leak check ok. No visible metal found in old filter.</p> <p>The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # <u>06-34133</u> dated <u>6-27-06</u>, signed <u>[Signature]</u></p> <p>Indianapolis Aviation, Inc./Indianapolis Metropolitan Airport 9913 Willowview Road, Fishers IN 46038 FAA Approved Repair Station #AIHR-109C</p> |

| DATE | RECORDING TACH TIME | TODAYS FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations |
|------|---------------------------|------------------|-----------------------------|--|
| 19 | | | | <p>Date: 09/06/2006, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Total Time 2294.1, TSMOH 369.5, Tach 790.5</p> <p>***Engine***</p> <p>100 Hr inspection on engine completed. Changed oil and filter. Serviced engine with Aeroshell 15W50 oil. Washed engine w/solvent and lubricated controls. Cleaned plugs, fuel screens, and air filter. Run-up and leak check ok. No visible metal found in old filter.</p> <p>Compression check over 80: #1 77, #2 72, #3 77, #4 75, #5 71, #6 78.</p> <p>Adjusted mag timing to engine.</p> <p>Re-safetied oil pressure relief valve.</p> <p>Installed chafe protection between #2 cyl oil drain tube and baffle rod.</p> <p>Installed primer line clamp cushion at #3 cyl.</p> <p>AD 2005-19-11, effective date 10/21/2005, Lycoming crankshafts, Para (g) N/A per crank; s/n (89368) and crank not replaced at last overhaul on 5/05/2000. (Repair station crank s/n is: S109425-1).</p> <p>AD 2006-10-21, effective date 6/22/2006, ECI connecting rods, N/A Para (c) per engine model and overhaul date.</p> <p>AD 2006-12-07, effective date 7/11/2006, ECI cyls, N/A, Lycoming p/n LW13870 cyls installed.</p> <p>I certify that this Engine has been inspected in accordance with an ANNUAL / 100 HR inspection and determined to be in airworthy condition. Pertinent details are on file at this agency under W/O <u>06-34464</u>.</p> <p>Date: <u>9-06-06</u></p> <p>Signed <u>[Signature]</u></p> <p>Indianapolis Aviation Inc./Indianapolis Metropolitan Airport, 9913 Willowview Road Fishers IN 46038 FAA approved repair station #AIHR-109c</p> |

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Date: 10/23/2006, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Tach 812.0 Hobbs 1405.1

Engine

Un-cowled engine. found faulty a/c hose ruptured, marked a/c inop. Washed engine w/solvent. Lubricated controls. Cowled engine. run-up leak check ok.

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 06-34637 dated 10-23-06, signed [Signature]

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Date: 1/30/2007, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Tach 846.0 Hobbs 1444.0

Engine

Changed oil and filter. Serviced engine with Phillips 20W50 oil. Washed engine w/solvent and lubricated controls. Run-up and leak check ok. No visible metal found in old filter.

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 07-35032 dated 1-30-07, signed [Signature]

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Date: 8/13/2007, Aircraft: N2149J, S/N: 28-7911061 Tach 949.1 Hobbs 1558.6

Engine

Changed oil and filter. Serviced engine with Phillips 20W50 oil. Washed engine w/solvent and lubricated controls. Run-up and leak check ok. No visible metal found in old filter.

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 07-35863 dated 8-13-07, signed Richard J. McKernan

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Date: 10/19/2007, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 ETT 2465.9, TSMOH

541.3, Tach 962.3, Hobbs 1573.8

Engine

100 Hr inspection of engine complete. Changed oil and filter. Serviced engine with Aeroshell 80 M oil. Washed engine w/solvent and lubricated controls. Run-up and leak check ok. Cleaned, gapped, inspected, and re-installed spark plugs. Ran engine, ops check good, no leaks noted. Re-installed cowling. No visible metal found in old filter.

AD 2007-04-19R1, eff date 05/07/2007, Cylinder separation, N/A, Superior Air Parts cylinders not installed.

AD 2006-20-19 eff date 11/03/2006, Crankshaft failure, N/A by engine model and s/n.

C/W AD 2005-12-06, eff date 07/19/2005, by inspection of magneto impulse coupling and stop pins IAW TCM MSB645, magneto model D6LN-3000, p/n 10-682560-11; s/n 8425015, inspected ok. AD next due at 2965.9 TTAf/1462.3 Tach.

Removed #5 cylinder and piston from engine. Installed overhauled cylinder and piston w/repairs rockers and new exhaust valve cap. Measured rocker to valve clearance. Replaced intake push rod w/new rod, p/n 15F19957-36 and re-checked clearance. Re-connected primer line, Cht probe, and installed baffles. Work done IAW Lycoming Direct Drive overhaul manual. Removed #4 cylinder and piston from engine. Installed overhauled cylinder and piston w/repairs rockers and new exhaust valve cap. Measured rocker to valve clearance, found to be within limits. Re-connected primer line and Cht probe and installed baffles. Work done IAW Lycoming Direct Drive overhaul manual.

Removed inop engine heater from bottom of oil sump. Cleaned area, installed new EZ Heat, Inc. model 440 heat pad on oil sump. Routed wire, tested, ops check good.

Replaced 4 worn spark plugs w/new, p/n RHM40E.

Fabricated and installed doubler on muffler shroud over cracked bolt hole.

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next 2 pages

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Dis-assembled magneto. Cleaned, inspected, and re-assembled magneto w/two new distributor gear kits, p/n 10-682016. Set magneto internal timing. Re-installed magneto on engine and timed. Work done IAW Bendix D-3000 service manual.

Removed #1 cylinder and piston from engine. Installed overhauled cylinder and piston w/repairs rockers and new exhaust valve cap. Measured rocker to valve clearance. Replaced intake push rod w/new rod, p/n 15F19957-36 and re-checked clearance. Re-connected primer line, Cht probe and installed baffles. Work done IAW Lycoming Direct Drive overhaul manual.

Removed #2 cylinder and piston from engine. Installed overhauled cylinder and piston w/repairs rockers and new exhaust valve cap. Measured rocker to valve clearance. Found to be within limits. Re-connected primer line, Cht probe, and installed baffles. Work done IAW Lycoming Direct Drive overhaul manual.

Removed #3 cylinder and piston from engine. Installed overhauled cylinder and piston w/repairs rockers and new exhaust valve cap. Measured rocker to valve clearance. Replaced intake push rod w/new rod, p/n 15F19957-36 and re-checked clearance. Re-connected primer line, Cht probe, and installed baffles. Work done IAW Lycoming Direct Drive overhaul manual.

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next page

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Removed #6 cylinder and piston from engine. Installed overhauled cylinder and piston w/repairs rockers and new exhaust valve cap. Measured clearance between rockers and valve replaced exhaust push rod w/rod, p/n 15F19957-34 and re-checked clearance. Re-connected primer line, Cht probe, and installed baffles. Work done IAW Lycoming Direct Drive overhaul manual.

I certify that this Engine has been inspected in accordance with an ANNUAL / 100 HR inspection and determined to be in airworthy condition. Pertinent details are on file at this agency under W/O 09-36039. Date: 10-19-07

Signed Patricia Hume

Indianapolis Aviation Inc./Indianapolis Metropolitan Airport,
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FAA approved repair station #AIHR-109c

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| | | | | Date: 11/12/2007, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Tach 972.8 Hobbs 1585.6 ***Engine*** Changed oil and filter. Serviced engine with Aeroshell 80 Straight Mineral oil. Washed engine w/solvent and lubricated controls. Run-up and leak check ok. No visible metal found in old filter. Performed engine compression test per owner request. Results are as follows: #1 79, #2 74, #3 74, #4 79, #5 79, #6 75. Installed Ace tach checker. Adjusted prop governor so that engine reaches full rpm. |
| | | | | The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # <u>07-36274</u> dated <u>11-12-07</u> , signed <u>Robert E. Clark</u> Indianapolis Aviation, Inc/Indianapolis Metropolitan Airport 9913 Willowview Road, Fishers IN 46038 FAA Approved Repair Station #AIHR-109C |


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| | | | | Date: 12/ 4/2007, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 tach 998.2 Hobbs 1614.2 ***Engine*** Removed inop heating pad from oil sump. Cleaned area and installed new heating pad, model #440. Ops check good. |
| | | | | The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # <u>07-36361</u> dated <u>12-04-07</u> , signed <u>Robert E. Clark</u> Indianapolis Aviation, Inc/Indianapolis Metropolitan Airport 9913 Willowview Road, Fishers IN 46038 FAA Approved Repair Station #AIHR-109C |

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Date: 1/17/2008, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Tach 1007.4 Hobbs 1624.9

Engine

Changed oil and filter. Serviced engine w/Aeroshell 15W50 oil. Washed engine w/solvent, lubed controls. Run up and leak check good. No visible metal found in old filter. Re-torqued all exhaust mounting hardware IAW Lycoming Service Manual.

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 08-36510 dated 1-17-08, signed 


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Date: 8/4/2008, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Tach 1056.6 Hobbs ~~1079.2~~ 1679.2

Engine

Changed oil and filter. Serviced engine with Aeroshell 15W50 oil. Washed engine w/solvent and lubricated controls. Run-up and leak check ok. No visible metal found in old filter.

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 08-37374 dated 8-04-08, signed 

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Date: 11/14/2008, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061

ETT 2597.9, TSMOH 673.3, Tach 1094.3

Engine

Completed 100 Hr inspection. Changed oil and filter. Serviced engine with Aeroshell 15W50 oil. Washed engine w/solvent and lubricated controls. Cleaned and gapped spark plugs. Cleaned oil suction screen. Run-up and leak check ok. No visible metal found in old filter. compression test over 80: #1 74, #2 75, #3 76, #4 74, #5 74, #6 73.

Removed cyl #2 valve cover and gasket. Installed new valve cover gasket and re-installed valve cover.

Wrapped fuel return line at cyl #2 w/anti-chafe spiral wrap.

Replaced poor safety wire on right side of accessory case.

Wrapped lead wire bundle in anti-chafe spiral wrap and secured lead wire bundle to air duct w/zip-ties.

AD 2004-10-14, eff date 6/25/2004, Crankshaft gear bolt, due O/H or prop strike.

AD 2005-12-06, eff date 7/19/2005, Magneto impulse, due 1462.3 Tach (2965.9 A/C TT).

Installed new mounting bolt for starter and alternator, p/n LW-31-1.16.

I certify that this Engine has been inspected in accordance with an ANNUAL 100 HR inspection and determined to be in airworthy condition. Pertinent details are on file at this agency under W/O 08-37783. Date: 11-14-08

Signed [Signature]

Indianapolis Aviation Inc./Indianapolis Metropolitan Airport,
9913 Willowview Road Fishers IN 46038
FAA Approved Repair Station, AIHR-109C

| DATE 19__ | RECORDING TACH TIME | FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
|--------------|---------------------------|--------|-----------------------------|--|
|--------------|---------------------------|--------|-----------------------------|--|

Date: 8/ 7/2009, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061
Tach 1178.7

Engine

Removed propeller. Replaced alternator belt, p/n 73965-009, supplied by customer. Re-installed propeller w/new o-ring. torqued, ran engine and ops checked good.

Installed heilcoil on fwd inside a/c bracket mount. Replaced alt support bracket w/new, p/n 79886-07. Removed exhaust and re-installed.

Replaced nut on fwd left baffle rod.

Removed alternator, p/n ALY6422R; s/n 9Q72323 and sent out for repair. Re-installed alternator after O/H performed by T&W, p/n ALY6422R; s/n 9Q72323. Checked alignment of pulleys and tensioned. Ops checked good.

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 09-38649 dated 8-07-09, signed [Signature]

Indianapolis Aviation, Inc/Indianapolis Metropolitan Airport
9913 Willowview Road, Fishers IN 46038
FAA Approved Repair Station #AIHR-109C

| 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 Technician or Repair Facility. (See back pages for other specific entries.) |
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Date: 6/15/2009, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061

Tach: 1143.0

Engine

Changed oil and filter. Cut and inspected oil filter. No metal or debris found. Installed new filter p/n CH48103-1, and serviced engine with 10qts Aeroshell 15w50 oil. Run-up and leak check good. EMD

Champion - OWNER CERT# 3082440

AirView
AIRCRAFT SALES & SERVICE

| 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 Technician or Repair Facility. (See back pages for other specific entries.) |
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|--------------|---------------------------|------------------|-----------------------------|---|

Date: 11/18/2009, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061

ETT 2715.4, TSMOH 790.8, Tach 1211.8, Hcobs 1851.8

Engine

Completed 100 Hr inspection. Changed oil and filter. Serviced engine with Aeroshell 15 W50 oil. Removed, inspected, and cleaned oil suction screen. No defects noted. Washed engine w/solvent and lubricated controls. Re-installed screen w/new gasket and safetied. Run-up check ok. No metal found in old filter. Performed engine compression check over 80: #1 77, #2 74, #3 74, #4 78, #5 76, #6 74.

AD 2008-19-05, eff. date 10/20/2008, ECI cylinders, N/A, Lycoming cylinders installed.

AD 2005-12-06, eff. date 7/19/2005, Magneto impulse due 1462.3 tach (2965.9 A/CTT).

AD 2004-10-14, eff. date 6/25/2004, Crankshaft gear bolt due OH or prop strike.

Installed 6 new spark plugs, Champion RHM40E.

I certify that this Engine has been inspected in accordance with an ANNUAL / 100 HR inspection and determined to be in airworthy condition. Pertinent details are on file at this agency under W/O # 39026. Date: 11-18-09

Signed *[Signature]*

Indianapolis Aviation Inc./Indianapolis Metropolitan Airport,
9913 Willowview Road Fishers IN 46038
FAA Approved Repair Station, AIHR-109C

| 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 Technician or Repair Facility. (See back pages for other specific entries.) |
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Date: 5/ 6/2010, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061 Tach Time: 1264
CHANGED OIL AND FILTER. CUT AND INSPECTED OIL FILTER. NO METAL OR DEBRIS
FOUND. INSTALLED NEW FILTER (CH48103-1) AND SERVICED ENGINE WITH 10'
QUARTS (AEROSHELL 15W50 MULTI-GRADE OIL). RUN UP NORMAL. LEAK CHECK
NORMAL. /END/

Cherry - owner cert # 3032440

AIHR
AIRCRAFT SALES & BROKERAGE

| 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 Technician or Repair Facility. (See back pages for other specific entries.) |
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Date: 5/20/2010, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061
Tach 1265.8, Hobbs 1910.8
Engine
Resealed through bolt on crankcase backbone.

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in
accordance with current regulations of the Federal Aviation Administration and was
determined airworthy and approved for return to service. Pertinent details of the repair are on
file at this repair station under W/O # 10-39575 dated 5/24/2010,
signed *[Signature]*

Indianapolis Aviation, Inc/Indianapolis Metropolitan Airport
9913 Willowview Road, Fishers IN 46038
FAA Approved Repair Station #AIHR-109C

| 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 Technician or Repair Facility. (See back pages for other specific entries.) |
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Date: 11/17/2010, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061

Tach: 1310.5

Engine

Found cylinder #1 and #2 oil drain tubes chafed and leaking. Repaired tubes by welding and re-installed.

Removed and replaced engine oil quick drain w/new Saf-Air P5000.

Changed oil and filter. Cleaned oil suction screen. Serviced engine with Aeroshell 15W50 oil and CH48103-1 filter. Washed engine w/solvent and lubricated controls. Run-up and leak check ok. No visible metal found in old oil filter.

The aircraft, engine, propeller, or appliance identified above was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and was determined airworthy and approved for return to service. Pertinent details of the repair are on file at this repair station under W/O # 10-40218 dated 11/17/2010, signed [Signature]

Indianapolis Aviation, Inc./Indianapolis Metropolitan Airport

9913 Willowview Road, Fishers IN 46038

FAA Approved Repair Station #AIHR-109C

| 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 Technician or Repair Facility. (See back pages for other specific entries.) |
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Date: 1/5/2011, Aircraft: N2149J, Type: PA28-236, S/N: 28-7911061

ETT 2830.7, TSMOH 906.1, Tach 1327.1, Hobbs 1977.8

Engine

100 Hr inspection completed. Oil change not due, (oil changed 11/17/2010 at 1310.5 Tach). Cleaned plugs and fuel screens. Cleaned air filter. Washed engine w/solvent. Lubed controls. Run-up, leak check ok. Compression test over 80: #1 74, #2 74, #3 68, #4 78, #5 76, #6 72.

AD 2005-12-06, eff date 7/19/2005, Magneto impulse, due 1462.3 Tach (2965.9 A/C TT).

AD 2009-26-12, eff date 2/04/2010, ECI cylinders, N/A Lycoming cylinders installed.

AD 2004-10-14, eff date 6/25/2004, Crankshaft gear bolt, due upon prop strike.

I certify that this Engine has been inspected in accordance with an ANNUAL / 100 HR inspection and determined to be in airworthy condition. Pertinent details are on file at this agency under W/O 10-40310. Date: 1-5-11

Signed [Signature]

Indianapolis Aviation Inc./Indianapolis Metropolitan Airport,

9913 Willowview Road Fishers IN 46038

FAA Approved Repair Station, AIHR-109C

| 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 Technician or Repair Facility. (See back pages for other specific entries.) |
|--------------|---------------------------|------------------|-----------------------------|--|
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Anderson Aircraft Services
282 Airport Rd
Anderson, IN 46017

Tail No.: N2149J Date: 8/04/2011 Tach: 1415.4

Changed oil and filter. Serviced engine with 10 qts Aeroshell 15W-50 oil.
 Inspected old filter no visible metal found. Engine run and leak check good.

Richard J. McKenney

AP2848937IA

| 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 Technician or Repair Facility. (See back pages for other specific entries.) |
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|--------------|---------------------------|------------------|-----------------------------|--|

constant
 AVIATION

4243 Eastlake Blvd. Birmingham AL. 35217 FAA CRS Y4MR806Y 205-849-3838

ENGINE LOG ENTRY

| Date | Registration Number | Serial Number | HOBBS | |
|---------|---------------------|---------------|-------|--|
| 7/20/11 | N2149J | 28-7911061 | 2059 | |

REPAIRED THE FOLLOWING ITEMS:

1. REMOVED, CLEANED, GAPPED, AND REINSTALLED BOTH SPARK PLUGS ON THE #3 CYLINDER. GROUND RAN ENGINE. NO DEFECTS NOTED.

I certify that this aircraft, airframe, aircraft engine, propeller, or appliance has been inspected and repaired in accordance with current Federal Aviation Administration regulations and is approved for return to service.

Pertinent details are on file at this station under work order: M21076

Authorized Signature: _____ Date: 7/20/11

Jonathon Rudy

| 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 Technician or Repair Facility. (See back pages for other specific entries.) |
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Tail No.: N2149J Date: 2/2/2012 Tach: 1461.9
2965.4 A/TT 2125.2 Hobbs 2965.4 E/TT 1040.8 TSMOH

Completed 100 hour / Annual inspection. Changed oil & filter. Serviced with 11qts Aeroshell 15W50 oil. Cut open filter, no visible metal found. Removed sump screen, checked ok. Installed with new crush washer. Performed compression test with Instrument #1 cal due 06/23/2012. SN 105 P/N R374-02CP. Read as follows: cyl #1 79/80, cyl #3 78/80, cyl#5 79/80, cyl#2 79/80, cyl#4 79/80, cyl#6 78/80. Cleaned carb inlet screen and resealed. Cleaned and gapped six spark plugs. Installed six new spark plugs RHM40Es in lower position of each cylinder. Sealed cyl #5 oil return line. C/W AD2005-12-06 eff date 7/19/2005 by removing mag & checked impulse per master service manual x4000 6.2.2 & TCM MSB 645. Checked ok. Next due 500 hours 1961.8 tach. A/TT 3465.4. Cleaned and inspected mag per section 6 and section 7.2.2, 7.2.3, 7.2.4, 7.2.6, 7.2.8, 7.2.8. Assembled mag per section 9 with new points P/N 10-382588. Points installed per 9.2.7. Installed mag with new gasket. AD2004-10-14 eff date 6/25/2004 crankshaft gear bolt due upon prop strike or O/H. Washed engine with solvent & lubed controls. Engine run up & leak checked. Checked ok.

I certify that this engine has been inspected in accordance with 100 hour / Annual Inspection and was determined airworthy and approved for return to service.

Shane A. Norris

AP2627788IA

| 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 Technician or Repair Facility. (See back pages for other specific entries.) |
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May 13,2012 1508.3 tach N2149J PA-28-236 Engine

Drained engine oil. Replaced oil filter and cut open old oil filter, checked free of metal particles. Serviced engine with ten quarts of Aeroshell 15W50 oil. Washed engine, lubed controls, run up and leak check, checked ok. -----END-----

Shane A. Norris A&P 2627788

10/17/2012

N2149J

PA-28-236

S/N 28-7911061

1566.0 Tach

Drained engine oil. Removed oil filter, cut open filter, checked free for metal particles or contamination. Installed and safe tied new oil filter. Serviced engine with 11 qts. Aeroshell 15W50 oil. Washed engine with mineral spirits. Ran engine, run up and leak check, checked ok. -----END-----

Shane A. Norris A&P 267788


11/15/2012 N2149J PA-28-236 Lycoming 0-540-J3A5D s/n L-20773-40A E/TT 3081.0
TTSMOH 1156.4 TSTOH 615.1 cyl #1,2,3,4,5 1577.4 tach
All six 0/H 10/19/07

Completed Annual / 100 hour inspection. Took hot compression check, read as follows cyl #1 79/80, cyl #2 78/80, cyl #3 79/80, cyl #4 78/80, cyl #5 78/80, cyl #6 78/80. Comp. check part number R374-02CP, s/n 105, cal. Due 4/20/2013. Cleaned oil sump pick up screen and cut open oil filter, both checked ok. Oil not changed at this time. Added 1 qt Aeroshell 15W50 oil. Cleaned carb. inlet screen and drained carb. Adjusted mag timing 1.5 degrees to spec. Cleaned, gapped, and tested top spark plugs. Installed six new Champion RHM 40 E spark plug in bottom of cylinders. Torqued all plugs. Torqued valve cover screws, intake bolts, exhaust nuts, and oil return line clamps. Washed engine lubed controls, run up and leak check, checked ok. A.D. 2012-19-01 eff. date 10/24/2012, N/A per crankshaft s/n 89368, not on Lycoming S.B. 569A. P/C/W as A.D. 2006-20-09, A.D. 2005-12-06 mag impulse due 1961.8 tach. A.D. 2004-10-14 eff. date 6/25/2004, crankshaft gear bolt due at prop strike or engine o/h. I certify that this engine has been inspected in accordance with 100 hour / Annual Inspection and was determined airworthy and approved for return to service. -END-----

Shane A. Norris
A&P 2627788 I.A.

19 April 2, 2013 N2149J PA-28- 236 S/N 28-7911061 1615 tach

Removed top cowl, Drained engine oil, removed oil filter. Cut oil filter open, checked free of metal particles, Installed new oil filter. Service engine with 11 qts Aeroshell 15W50 oil. Washed engine, lubed controls, run up and leak check, checked ok. END-----

Shane A. Norris
A&P 2627788 I.A. 

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& BROKERAGE