

V 750 R

# **Magnum** Engines, Inc.

Fort Wayne International Airport  
Telephone [REDACTED]

Fort Wayne, IN 46809

## **LOG BOOK**

**ENGINE: IO-540-K1G5D**  
**SERIAL NO. RL-21770-48A**

### **IMPORTANT**

Airworthiness of engine, components and accessories must be determined by the installing mechanic per FAR part 43 before aircraft is returned to service.

Work Order # ME1446  
Date: 02-17-08

Signed: [REDACTED]  
License: A&P [REDACTED] Gene Svoboda  
Magnum Engines, Inc.

### **IMPORTANT**

1. After installation, re-torque bolt and nut holding lifting eye to engine.
2. **IMPORTANT:** After engine installation and before initial start-up, check magneto timing (reference engine data plate).
3. Check security of any bolt loosened to secure clamps or brackets during engine installation
4. Check throttle linkage and mixture, lock nut or cotter pin installed
5. Check and set ground idle mixture cut-off after initial ground run.
6. At 10 hours, no later than 20 hours, tighten valve cover screws, hose clamps on all lines, magneto hold-down nuts and induction tube clamps to cylinders. **CHECK ENGINE FOR INDICATIONS OF ANY OIL LEAKAGE.**

Use 80W or 100W mineral oil for 50 hours. Use of 20/50 Philips mineral is also approved. After 50 hours, it is recommended that 80W or 100W detergent oil be used.

This Document Is To Serve As

**CERTIFICATION**

of

**Engine Overhaul**

by

**Magnum Engines, Inc.**

MFG: Lycoming      Model: IO-540-K1G5D      Serial No: RL-21770-48A  
Total Time: 4,886.4      SMOH (0)

Engine to be operated and maintained I.A.W. airworthiness limitations of Lycoming and new Piper Aircraft Corporation.

A.D. Notes: Reference Engine Log Book

Pertinent Details of the Work Performed are on File at this Company under **Work Order #1446**

Date: 02-17-08

  
License: A&P      Gene Svoboda

**Magnum Engines, Inc.**

02-17-08 This engine Model IO-540-K1G5D, Serial # **RL-21770-48A** was overhauled by Magnum Engines, Inc., of Fort Wayne, IN according to factory recommended procedures, specifications, limits and pertinent Federal Aviation Regulations.

All internal steel parts were magnafluxed and all non-ferrous materials were checked for cracks. All the guidelines from the Textron Lycoming Table of Limits and Overhaul Manual were followed at time of overhaul.

All tags received from the accessory suppliers are located at the rear of this logbook as applicable, including applicable 8130-3.

The crankshaft polished, dimensioned; replaced counterweights with overhauled P/N 73644 S/N S161833-4 & S262032-1, and new pins, bushings, plates, lock rings. Engine dynamically balanced. Lycoming LW19340 camshaft new, cam design check includes new tappets and hydraulics. Rocker arms overhauled. New Lycoming cylinders installed complete assemblies; all cylinders flow matched intake and exhaust ports and Magnum valve set up. New main and rod bearings installed, new rod bolts and nuts, all new gaskets and seals were utilized during final build-up. Connecting rods P/N LW19332-85 installed bolt LW12596 per AS478-6A and S.I. 1469. Fuel system overhauled certified and injector nozzles flow matched. New fuel injector lines installed. Fuel pump overhauled. Crankshaft AD checked and not applicable; crankshaft P/N LW12581-8B. Engine case overhauled certified P/N 15448, 15449 S/N 124

New crankshaft gear and new Superior bolt on crankshaft gear. Oil coolers overhauled; Bendix magneto overhauled, new ignition harness and spark plugs; oil pump housing and gears replaced with new. Vernatherm installed P/N 15E19600. New oil sump baffle assembly installed, P/N 56G23399. All engine baffling stripped, repaired, metal iridite coated, clear IMRON applied and new baffle seal material applied.

All engine parts were cleaned, dimensioned, alodined and repainted before final assembly.

|                             | P/N          | S/N              |
|-----------------------------|--------------|------------------|
| Cylinder Kit                | 05K21120     | Reference 8130-3 |
| Bendix Magneto              | 10-682560-13 | F229003GR        |
| Fuel Pump                   | 40296        | AA23414          |
| Oil Cooler                  | 8543897      | 78L-427          |
| Oil Cooler                  | 8543897      | 78L-435          |
| Bendix Servo<br>(RSA-10ED1) | 2524273-12   | 70043606         |
| Injector Nozzle             | 2524864-2    | N/A              |
| Flow Divider                | 2524232-2    | TO47920          |
| Starter                     | MZ4222       | 4062576          |
| Ignition Harness            | A49-1085     |                  |

**WORK ORDER # ME1446**

Authorized Signature: \_\_\_\_\_

License # A& \_\_\_\_\_

**Gene Svoboda**

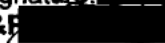
**Magnum Engines, Inc.**

02-17-08 All recommended parts prescribed in the Lycoming Overhaul Manual and applicable Airworthiness Directives were complied with at time of this overhaul. For a complete list reference Work Order # 1446 on file at Magnum Engines.

\* FAA-PMA parts are frequently substituted for Avco-Lycoming factory parts.

**WORK ORDER # 1446**

Authorized Signature: 

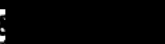
License # A&P  Gene Svoboda

**Magnum Engines, Inc.**

02-17-08 After assembly, this engine was run-up per Lycoming with all temperatures and pressures within the limits prescribed by the factory. Break-in procedures were provided to installer by Magnum Engines.

**WORK ORDER # ME1446**

Signature: 

License: A&P  Gene Svoboda

*Magnum Engines, Inc.*

**IMPORTANT**

**FUEL INJECTION LINES** It is the responsibility of the owner to assure compliance with Lycoming AD 2002-26-01 at each 100-hour interval.

Date: 02-17-08

Signed

License: ~~A&P~~ Gene Svoboda

*Magnum Engines, Inc.*

**MAINTENANCE RELEASE**

The aircraft engine and/or component identified was overhauled and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service.

Pertinent details of the overhaul are on file at this company under **Work Order No. 1446**

Date: 02-17-08

Signed

LICENSE Gene Svoboda

**CAUTION**

Avoid prolonged ground run or slow flight as this causes new engine damage and will void warranty. **For proper warranty coverage consult Magnum Engines before any repairs or adjustments are made on the engine.**

**CAUTION**

**Warranty will be voided** if all oil fed accessories are not cleaned, tagged and recorded in log book at time of engine overhaul; eg. prop, prop governor, oil cooler, oil tank, and all fuel and oil lines.

| DATE                   | TOTAL TIME IN SERVICE                                                                                                                                                                                                                                                                                                                                                                                                                                  | TOTAL TIME SINCE OVHL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------|----------------------------------------------------------------------------------------|
| XXXXXXX                | 4953.1                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ø                     | 2409.8                       | Totals Brought Forward From Previous Page                                              |
| 3/15/08                | N750R                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3-15-08               | TACH: 2409.8                 |                                                                                        |
|                        | ENGINE TOTAL TIME: 4886.4 SMOH: 0.0                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                              |                                                                                        |
|                        | THIS ENGINE INSTALLED IN PIPER PA32R-300, N750R, AFTER OVERHAUL. THE FOLLOWING PARTS USED: 4 EA. ENGINE MOUNTS AND MOUNT BOLTS, ALL FUEL AND OIL HOSES, PROP GOVERNOR OVERHAULED, MANIFOLD DRAIN VALVE, OIL DRAIN VALVE, ALT. BELT, AIR FILTER, EXH. GASKETS AND NUTS. ENGINE SERVICED WITH 11 QTS. PHILLIPS 100 AD OIL. ENGINE GROUND RUN, TEST FLOWN AND RETURNED TO SERVICE. C/W AD 02-26-01 FUEL INJ. LINES. C/W AD 08-6-51, FUEL INJ. SERVO PLUG. |                       |                              |                                                                                        |
|                        | THIS ENGINE HAS BEEN INSPECTED I/AW 100 HOUR INSPECTION AS OUTLINED IN APPENDIX D OF FAR PART 43 AND PIPER INSPECTION GUIDE AND WAS CONSIDERED TO BE IN AIRWORTHY CONDITION AT THIS TIME.                                                                                                                                                                                                                                                              |                       |                              |                                                                                        |
|                        | Buddy's Aircraft Service Inc.                                                                                                                                                                                                                                                                                                                                                                                                                          | M.H. Bowering         |                              |                                                                                        |
|                        | Madison Ms 39110                                                                                                                                                                                                                                                                                                                                                                                                                                       | A&P                   |                              |                                                                                        |
| 4/24/08                | N750R                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4-24-08               | TACH: 2436.4                 |                                                                                        |
| SMOH                   | DRAINED ENGINE OIL, CUT FILTER OPEN, NO METAL PRESENT. FILLED ENGINE WITH 10 QTS. AEROSHELL 100W OIL. ADDED 2 PTS. AV BLEND. REPLACED CH48109-1 OIL FILTER. GROUND RUN, NO LEAKS NOTED.                                                                                                                                                                                                                                                                |                       |                              |                                                                                        |
| 26.6                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                              |                                                                                        |
| TSN                    | M.H. BOWERING                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                              |                                                                                        |
| 4979.7                 | BUDDY'S AIRCRAFT SERVICE INC.                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                              |                                                                                        |
|                        | MADISON MS 39110                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                              |                                                                                        |
| 9/5/2008               | N750R                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 9-5-08                | TACH: 2486.4                 |                                                                                        |
| SMOH                   | DRAINED ENGINE OIL, CUT FILTER OPEN, NO METAL PRESENT. FILLED ENGINE WITH 10 QTS. AEROSHELL 100 W OIL. ADDED 2 PTS. AV BLEND. REPLACED CH48103-1 OIL FILTER. GROUND RUN, NO LEAKS NOTED.                                                                                                                                                                                                                                                               |                       |                              |                                                                                        |
| 76.6                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                              |                                                                                        |
|                        | M.H. BOWERING                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                              |                                                                                        |
|                        | A&P                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       |                              |                                                                                        |
|                        | BUDDY'S AIRCRAFT SERVICE INC.                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |                              |                                                                                        |
|                        | MADISON MS 39110                                                                                                                                                                                                                                                                                                                                                                                                                                       |                       |                              |                                                                                        |
| SUB-TOTALS this        |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                              |                                                                                        |
| TOTALS - Carry Forward |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                              |                                                                                        |



TT: 5093.2

4874.2

TOTALS -- Carry Forward

ENGINE SMOH -140.4 HRS      ENGINE TT-5026.8.  
PROP SOH-814.3 HRS      PROP TT-5093.27.

| DATE                   | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVHL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-----------------------|-----------------------|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| XXXXXXX                | 4926.3                | 172.3                 | 2582.1                       | Totals Brought Forward From Previous Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 7/15/2009              |                       |                       | Hours                        | <p>N750R 7-15-09 TACH: 2582.1</p> <p>CLEANED PLUGS, REPLACED FUEL NOZZLES P.N. 2524864-2. REMOVED FUEL SERVO AND SENT TO QUALITY AIRCRAFT W.O. # 22303 DATED 7-13-09. CLEANED AND FLOW CHECKED BY QUALITY. CLEANED AND FLUSHED ALL FUEL LINES, SCREENS AND FLOW DIVIDER. REPLACED POINTS P.N. 10-382585 AND CONDENSOR P.N. 10-400576 IN MAG. ENGINE GROUND RUN, AND FUNCTION NORMAL.</p> <p>M.H. BOWERING<br/>A&amp;P<br/>BUDDY'S AIRCRAFT SERVICE INC.<br/>MADISON MS 39110</p>                                                                                                                                                                                                                                                                                   |
| 10/2/2009              |                       |                       |                              | <p>N750R 10-2-09 TACH: 2603.4</p> <p>DRAINED ENGINE OIL, CUT FILTER OPEN, NO METAL PRESENT. FILLED ENGINE WITH 10 QTS. AEROSHELL 100W OIL. ADDED 2 PTS. AV-BLEND REPLACED CH48103-1 OIL FILTER. GROUND RUN AND CHECKED FOR LEAKS.</p> <p>M.H. BOWERING<br/>A&amp;P<br/>BUDDY'S AIRCRAFT SERVICE INC.<br/>MADISON MS 39110</p>                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                        |                       |                       |                              | <p>N750R 5-3-10 TACH: 2641.3 HOBBS: 1829.9 TSMOH: 231.3</p> <p>REMOVED AND REPLACED 10 QTS. AEROSHELL 100 W OIL. REPLACED CH48103-1 OIL FILTER ADDED 2 PTS. AV-BLEND. COMP. CK. #1-78 #2-79 #3-77 #4-79 #5-75 #6-79. CHECKED EXH. AND INDUCT SYSTEM. CLEANED SCREENS AND FUEL NOZZLES CHECKED ALL CONTROLS FOR TRAVEL AND STOP CONTACT. CHECKED MAG TIMING. REPLACED BA-3 AIR FILTER. CLEANED AND GAPPED PLUGS. SEE AIRFRAME LOGS FOR AD-C/W.</p> <p>TSM: 4985.30</p> <p>THIS ENGINE HAS BEEN INSPECTED I/AW 100 HOUR INSPECTION AS OUTLINED IN APPENDIX D OF FAR PART 43 AND PIPER INSPECTION GUIDE AND WAS CONSIDERED TO BE IN AIRWORTHY CONDITION AT THIS TIME.</p> <p>Buddy's Aircraft Service Inc.<br/>Bolton, Ms. 39041</p> <p>M.H. Bowering<br/>A&amp;P</p> |
| SUB-TOTALS this page   |                       |                       |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| TOTALS - Carry Forward |                       |                       |                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



| DATE      | TOTAL<br>TIME<br>IN<br>SERVICE | TOTAL<br>TIME<br>SINCE<br>OVHL | TACH OR<br>RECORDING<br>METER<br>TIME | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NO. OF PERSON<br>PERFORMING WORK |
|-----------|--------------------------------|--------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------|
| XXXXXXX   |                                | 240.4                          |                                       | Totals Brought Forward From Previous Page                                                 |
| 6/29/2010 |                                | Hours                          | 2650.2                                | MUFFLER REPAIR                                                                            |
|           | 140 BRS                        | - 1840.6                       |                                       |                                                                                           |
|           |                                |                                |                                       |                                                                                           |
|           |                                |                                |                                       |                                                                                           |

Engine Maintenance Entry JULY 9, 2010

Fly By Knight, Inc. [REDACTED] Hammond, LA, 70401.

N750R      DATE: 1/29/2011      TACH: 2716.3      SMOH: 306.3      ENG TT: 5192.7  
 Replaced #3 cylinder oil return tube with new pn 73027. Ground run engine, no oil leaks observed.

A &amp; P [REDACTED]

| DATE    | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVHL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|---------|-----------------------|-----------------------|------------------------------|----------------------------------------------------------------------------------------|
| XXXXXXX | 5035.5                | 281.5                 | 2691.3                       | Totals Brought Forward From Previous Page                                              |

10/25/2010

**Engine Maintenance Entry OCT 25, 2010**  
**N750R PIPER PA32R-300 S/N 32R-7780067**  
**HOBBS:1881.0 TACH:2691.3**

**Madison Air Center, [REDACTED] Madison, MS, 39110**

REMOVED COWLINGS AND DRAINED OIL, REMOVED OIL FILTER AND CUT AND CHECKED, CHECK GOOD, SERVICED OIL WITH 12QTS AEROSHELL 100W, NEW OIL FILTER INSTALLED AA48103-1 AND SECURED. RAN ENGINE AND LEAK CHECK GOOD. REINSTALLED COWLINGS AND SECURED. WORK DONE BY JIM TRIGG  
 DAVID GENTRY  
 A&P# [REDACTED]

Cur TACH 2,746.3 B-  
 LAST TACH 2,691.3 =  
 55.0

TOTAL TIME SINCE OVERHAUL  
 336.5 HOURS

**Engine Maintenance Entry 6/1/2011**  
**N750R PA-32R-300 Serial 32R-7780067**  
**Aircraft Total Time 4981.3 hours**

TACH → 2,746.3 HOURS

**Madison Air Center, [REDACTED] Madison, MS, 39110**

Drained engine oil and inspected filter and suction pick up screen, no metal was noted. Installed a new CH48103-1 filter and reinstalled the suction pickup with a new gasket. Both were safetied. Serviced the sump with 12 quarts of Aeroshell 100W engine oil. Cleaned the fuel bowl screen and the Servo unit inlet screen. Performed a differential compression check all cylinders passed. Cleaned gapped and inspected spark plugs, Set mag to engine timing to 20 degrees before TDC. Complied with AD 09-02-03 Fuel Injection Servo plug by inspection of the fuel servo in accordance with AD no defects noted, AD was previously complied with no further action due. AD 91-14-22 Crankshaft Gear Retaining Bolt is due if a propeller strike occurs, engine sudden stoppage occurs, or if certain types of propeller damage are encountered. No prop strike at this time. Washed engine, ground ran and leak checked, no leaks noted. This engine has been inspected in association with an annual inspection and is approved for return to

David C Straughn  
 A&P# [REDACTED]

*[Signature]*

6/1/2011  
 TOTAL TIME IN SERVICE  
 5090.5

9/19/2011  
 TACH 2800.4

**Engine Maintenance Entry September 19, 2011**  
**N750R PIPER PA32R-300 S/N 32R-7780067**  
**TACH:2800.4**

**Madison Air Center, [REDACTED] Madison, MS, 39110**

Drained engine oil, secure a mid drain oil sample and inspected the filter and pick up screen, no metal was noted. Serviced the sump with 11 quarts of Aeroshell 100W and installed a new CH48103-1 oil filter. Washed the engine, ground ran and leak checked, no leaks were noted.

Jim W Trigg A&P# [REDACTED]

SUB-TOTALS this page

TOTALS - Carry Forward

| DATE    | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVHL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|---------|-----------------------|-----------------------|------------------------------|----------------------------------------------------------------------------------------|
| XXXXXXX |                       |                       |                              | Totals Brought Forward From Previous Page-                                             |

5/23/2012

TACH -

2,859.8

TOTAL TIME  
IN SERVICE  
5204.0  
HOURS

TIME SINCE  
OVERHAUL  
450  
HOURS

**Engine Maintenance Entry May 23, 2012**  
**N750R PIPER PA32R-300 S/N 32R-7780067**  
**TACH:2859.8 HOBBS: 2082.8**

**Madison Air Center** [REDACTED] **Madison, MS, 39110** [REDACTED]

Ran aircraft to warm oil, removed engine cowl, drained engine oil, removed and inspected oil filter. No metal noted. Installed a new CH48103-1 filter and safe tied. Serviced sump with 11 qts. Aeroshell 100W engine oil. Washed engine, ground ran and leak checked. No discrepancies noted. Found intake ducting loose. Reconnected and secured ducting. END

[REDACTED]  
Michael L. Brown  
A&P # [REDACTED]

9/4/12

TACH

2883.2

TOTAL TIME IN  
SERVICE -  
5227.4  
HOURS

TIME SINCE  
OVERHAUL

2973.9

**Madison Air Center** [REDACTED] **Madison, MS, 39110** [REDACTED]

**Engine Maintenance Entry N750R 4 September 2012**  
**Piper PA32R-300 S/N: 32R-7780067 Tach: 2883.2**

**Maintenance Actions Performed:**

- 1) Performed 100hr/annual inspection/maintenance in accordance with Piper PA-32R-300 Inspection Report.
- 2) Changed Oil and Filter. Serviced with CH48103-1 Filter and 12 qts Phillips XC 20W50 Oil, Oil sample taken and filter cut open and inspected. No defects noted.
- 3) Replaced Induction Air Filter P/N: BA-3.
- 4) Replaced #4 Cylinder P/N: LW-12993, S/N: 40065-1.
- 5) Performed compression test. Results as follows: 1) 78/80, 2) 64/80, 3) 64/80, 4) N/A (new cyl.), 5) 79/80, 6) 70/80.

Work accomplished by: Michael L. Brown, Charles R. Hopper, David C. Entrekin, and James W. Trigg.

**ADs Compliance:**

- 1) Complied with AD 2011-26-04, Amnt 39-16894, para (g), (h), and (i) by inspection of fuel injector lines and clamps in accordance with MSB 342F. No defects noted. Next due by TAF 5526.5

I certify this Engine has been inspected in accordance with an **100 HR INSPECTION** in conjunction with an Annual Inspection and has been determined to be in an airworthy condition. END.

[REDACTED]  
Ronald D. Thompson A&P [REDACTED]

SUB-TOTALS this

TOTALS - Carry Forward

| DATE    | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVHL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|---------|-----------------------|-----------------------|------------------------------|----------------------------------------------------------------------------------------|
| XXXXXXX |                       |                       | 2890.0                       | Totals Brought Forward From Previous Page                                              |

9/24/12

Madison Air Center, [REDACTED] Madison, MS, 39110 [REDACTED]

Engine Maintenance Entry N750R 24 September 2012  
 Piper PA32R-300 S/N: 32R-7780067 Tach: 2890.0

Removed engine cowling, cleaned # 6 cylinder injector and plugs.  
 Checked EGT and CHT leads for security. Adjusted mixture control cable routing, lubricated, and adjusted clevis bolt tension. Ground ran engine. Temperatures within limits. No other issues noted at this time.

[REDACTED]  
 Charles R. Hopper  
 AP # [REDACTED]

# 6 WAS RUNNING  
 ↑ CHT 745  
 ON CLIMB OUT  
 6 STAGES 100° HOTTER  
 THAN OTHER CYLINDERS

10/5/12

Madison Air Center, [REDACTED] Madison, MS, 39110 [REDACTED]

Airframe Maintenance Entry N 750R October 5, 2012  
 PA32R-300 S/N: 32R-7780067 Hour Meter: 2120.4

Installed new voltage regulator, PN# VR200A. Installed new alternator, PN# AL12-C60. Ground ran engine. No defects noted.

[REDACTED]  
 Michael L. Brown  
 A & P# [REDACTED]

TACH

2,890

TOTAL TIME

IN SERVICE

→ 5234.2

TOTAL TIME SINCE

OVERHAUL → 480.2

11/12/2012

TACH - 2908.7

Engine Maintenance Entry Nov. 12, 2012  
 N750R PIPER PA32R-300 S/N: 32R-7780067  
 HOBBS:2140.7 TACH:2908.7

Madison Air Center, [REDACTED] Madison, MS, 39110 [REDACTED]

REMOVED COWLINGS AND DRAINED OIL, REMOVED OIL FILTER AND CUT AND CHECKED, CHECK GOOD. SERVICED OIL WITH 11QTS PHILLIPS 20W50 XC OIL, NEW OIL FILTER INSTALLED CH48103-1 AND SECURED. RAN ENGINE AND LEAK CHECK GOOD. REINSTALLED COWLINGS AND SECURED. WORK (GUD)

JAMES W. TRIGG  
 A & P# [REDACTED]

SUB-TOTALS this

TOTALS - Carry F

| DATE    | TOTAL TIME IN SERVICE | TOTAL TIME SINCE OVHL | TACH OR RECORDING METER TIME | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK |
|---------|-----------------------|-----------------------|------------------------------|----------------------------------------------------------------------------------------|
| XXXXXXX |                       |                       | 2890.0                       | Totals Brought Forward From Previous Page                                              |

9/24/12

Madison Air Center, [REDACTED] Madison, MS, 39110 [REDACTED]

Engine Maintenance Entry N750R 24 September 2012  
Piper PA32R-300 S/N: 32R-7780067 Tach: 2890.0

Removed engine cowling, cleaned # 6 cylinder injector and plugs.  
Checked EGT and CHT leads for security. Adjusted mixture control cable routing, lubricated, and adjusted clevis bolt tension. Ground ran engine. Temperatures within limits. No other issues noted at this time.

[REDACTED]  
Charles R. Hopper  
AP # [REDACTED]

# 6 WAS RUNNING  
↑ CHT > 450  
ON CLIMB OUT  
6 STARTED 100° HOTTER  
THAN OTHER CYLINDERS

10/5/12

Madison Air Center, [REDACTED] Madison, MS, 39110 [REDACTED]

Airframe Maintenance Entry N 750R October 5, 2012  
PA32R-300 S/N: 32R-7780067 Hour Meter: 2120.4

Installed new voltage regulator, PN# VR200A. Installed new alternator, PN# AL12-C60. Ground ran engine. No defects noted.

[REDACTED]  
Michael L. Brown  
A & P# [REDACTED]

TACH  
2,890

TOTAL TIME  
IN SERVICE  
→ 5,234.2

TOTAL TIME SINCE  
OVERHAUL → 480.2

11/12/2012

TACH → 2908.7

Engine Maintenance Entry Nov. 12, 2012  
N750R PIPER PA32R-300 S/N 32R-7780067  
HOBBS:2140.7 TACH:2908.7

Madison Air Center, [REDACTED] Madison, MS, 39110 [REDACTED]

REMOVED COWLINGS AND DRAINED OIL, REMOVED OIL FILTER AND CUT AND CHECKED, CHECK GOOD. SERVICED OIL WITH 11 QTS PHILLIPS 20W50 XC OIL, NEW OIL FILTER INSTALLED CH48103-1 AND SECURED. RAN ENGINE AND LEAK CHECK GOOD. REINSTALLED COWLINGS AND SECURED. WORK (GVD)

JAMES W. TRIGG

A&amp;P [REDACTED]

SUB-TOTALS this

TOTALS - Carry 5

Madison Air Center, [REDACTED] Madison, MS, 39110

Engine Maintenance Entry N750R April 22, 2013  
Piper PA32R-300 S/N: 32R-7780067 Tach: 2959.7

Changed oil and filter. Captured mid stream sample for Avlab. Cut open filter and inspected for foreign material, none noted. Serviced with 11 qts Phillips XC 20W50 and 1 ea CH48103-1 filter. Adjusted oil pressure relief valve to lowest setting. Washed engine, ground run engine and checked for leaks and proper oil pressure. No further defects noted.

END.

James W. Trigg A&amp;P

Fly By Knight, Inc. [REDACTED] Hammond, LA

N750R<sup>+</sup>

~~DATE: 12/12/2013~~

TACH-30072

-SMOH: 597.4

~~TT-5482.8~~

Grounded aircraft, performed compression check; #1 74/80, #2 76/80, #3 72/80, #4 79/80, #5 77/80; #6 78/80, drained oil, refilled with 12qts Phillips 20W50XC, replaced oil filter with AA48110-2; cut old filter, no contaminants found, inspected oil pick-up screen; no contaminants found, reinstalled with new crush gasket. Replaced all sparkplugs with new URHM38E, inspected fuel servo screen; no contaminants found, cleaned all fuel injectors; removed magneto pin 10-82560-13 sn F229003RG for 500hr inspection by Quality Aircraft Accessories WO# W01170011784; reinstalled same with new capacitors & lock washers & timed to engine, torqued nuts to 204in-lbs. Degreased & washed engine, ground ran, no leaks observed. CWADIT-26-04 by visual inspection of fuel injector lines & clamps, no defects noted this time; next due TACH 3107.2, QAA CW AD05-12-06 by inspection of magneto impulse coupling; next due TACH 3507.2 (see attached 8130-3 dated 11/26/2013). This engine was inspected IAW a 100hr inspection and found to be in airworthy condition. - -

**A & P**

Madison Air Center, [REDACTED] Madison, MS, 39110

|                          |                  |              |
|--------------------------|------------------|--------------|
| Engine Maintenance Entry | N750R            | May 14, 2014 |
| Piper PA32R-300          | S/N: 32R-7780067 | Tach: 3054.3 |

Changed oil and filter. Captured mid stream sample for Avlab. Cut open filter and inspected for foreign material, none noted. Serviced with 11 qts Phillips XC 20W50 and 1 ea CH48103-1 filter. Removed suction screen and inspected for contamination, none noted. Reinstalled with a new crush gasket. Washed engine, ground run engine and checked for leaks, none note. END.

James W. Trigg A&amp;P

TOTALS – Carry Forward



DATE

Madison Air Center [REDACTED] Madison, MS, 39110 [REDACTED]

Engine Maintenance Entry N750R March 1, 2016

XXXXX

Lycoming IO-540-K1G5D S/N: RL-21770-48A Tach: 3174.0 SMOH: 764.2

Maintenance Actions Performed:

- 1) Performed 100hr/annual inspection/maintenance in accordance with Piper PA-32R-300 Inspection Report.
- 2) Changed oil and filter. Serviced with CH48103-1 filter and 11 qts Phillips XC 20W50 oil. Oil sample taken and filter cut open and inspected. No defects noted.
- 3) Performed compression test. Results as follows: 1) 71/80, 2) 70/80, 3) 58/80, 4) 72/80, 5) 77/80, 6) 68/80.

Work accomplished by: Charles R. Hopper, David C. Entekin, R. G. Sheridan and Jacob Cox.

ADs Compliance:

- 1) Complied with AD 2011-26-04, Amnt 39-16894, para (g), (h), and (i) by inspection of fuel injector lines and clamps in accordance with MSB 342F. No defects noted. Next due by TTAF 5729.5

I certify this Engine has been inspected in accordance with an 100 HR INSPECTION in conjunction with an Annual Inspection and has been determined to be in an airworthy condition. END.

Charles R. Hopper  
A&P# [REDACTED]

Make: Lycoming  
Model: IO-540-K1G5D  
Serial No.: RL-21770-48A



CONTINENTAL MOTORS SERVICES

Continental Motors Services, [REDACTED] Fairhope, AL 36532 [REDACTED] FAA Repair Station No. [REDACTED]

Date: 5/2/2017  
Tach Time: 3242.2  
Time SOH: 832.4  
Total Time: 5785.5

I certify that this engine has been inspected in accordance with an **annual** inspection and determined to be in airworthy condition.

**Work Performed:** Completed an ANNUAL inspection in accordance with the scope and detail of the items listed in 14 CFR 43 Appendix D using the Piper Aircraft Corporation PA-32R-300 Inspection Report as a guide. Compression check / 80 psi: #1-72, #2-72, #3-71, #4-74, #5-75, #6-74. Cylinder #3 was removed, exhaust studs were removed, exhaust port refaced, and new studs installed. Reinstalled cylinder with new o-rings. Cleaned fuel nozzles. Cleaned, gapped, tested, and rotated spark plugs. Replaced all push rod tube seals. Adjusted oil pressure. Drained oil and installed new AA48103-2 filter. Serviced engine with 12 quarts of Phillips XC20W50 oil. Complied with AD 2015-19-07, fuel injection line inspection. Next inspection due @ 3342.2 tach. AD 2005-12-06, magneto impulse coupling inspection, next inspection due @ 3507.2 tach. Completed ground operational checks and leak check. ---END---

Authorized Signature for Repair Station [REDACTED]  
Details of the work performed are on file under Work Order No. AC-7605

SUB-TOTALS this page

TOTALS -- Carry Forward

| DATE    | TOTAL<br>TIME<br>IN<br>SERVICE | TOTAL<br>TIME<br>SINCE<br>OVHL | TACH OR<br>RECORDING<br>METER<br>TIME | DESCRIPTION OF WORK PERFORMED<br>SIGNATURE & CERTIFICATE NO. OF PERSON<br>PERFORMING WORK |
|---------|--------------------------------|--------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------|
| XXXXXXX |                                |                                |                                       | Totals Brought Forward From Previous Page                                                 |

Make: Lycoming  
Model: IO-540-K1G5D  
Serial No.: RL-21770-48A



Date: 9/25/2017  
Tach Time: 3298.2

### CONTINENTAL MOTORS SERVICES

Continental Motors Services [REDACTED] Fairhope, AL 36532 [REDACTED] FAA Repair Station No. [REDACTED]

The work performed as described below has been inspected in accordance with current regulations of the Federal Aviation Administration and found to be in airworthy condition with respect to the work performed.

**Work Performed:** Drained oil, cleaned strainer, and installed new AA48103-2 filter. Serviced engine with 12 quarts of Phillips XC 20W50 oil. Completed ground operation leak check. —END—

Authorized Signature for Repair Station [REDACTED]  
Details of the work performed are on file under Work Order No. AC-7924

### GULF COAST AIRCRAFT SERVICE CENTER, INC

[REDACTED]  
MOBILE, AL 36615  
[REDACTED]

I certify that this aircraft/engine/propeller was inspected INAW  
ANNUAL inspection and determined to be in airworthy  
condition.

T.T. 5830.9 TACH 3354.3  
T.S.O. 944.5 HOBBS

SIGNATURE [REDACTED]  
CERTIFICATE # JA  
DATE: 6/20/2018

C/W AD 2005-19-07 INJECTOR LINES  
AD 2017-14-04 F/W N/A COOLER HOSE

Compression Check [REDACTED]  
1 266 366 4 72 5 70 6 68

Checked Magneto Timing  
Cleaned fuel Nozzles  
Changed oil & filter to Penn Shell 100W

SUB-TOTALS this page

TOTALS - Carry Forward