

AIRCRAFT TECHNICAL LOGS

Section 3. ENGINE

Export Certificate of Airworthiness

This certifies that the product identified below and more particularly described in Specification (s)¹ of the Federal Aviation Administration, Numbered **1E10** has been examined and as of the date of this certificate, is considered airworthy in accordance with a comprehensive and detailed airworthiness code of the United States Government, and is in compliance with those special requirements of the importing country filed with the United States Government, except as noted below. This certificate in no way attests to compliance with any agreements or contracts between the vendor and purchaser, nor does it constitute authority to operate an aircraft.

Product: **Aircraft Engine**
Manufacturer: **Lycoming Engines**
Model: **IO-360-M1A**
Serial No.: **L-31739-51A**
New Newly Overhauled
Used Aircraft
Country to which exported: **Canada**
Exceptions: **None**

ORIGINAL



Ted M. Dougherty
Signature of Authorized Representative

October 12, 2004
Date

DMIR810325NE
District Office or Designee Number

¹ For complete aircraft, list applicable specification or Type Certificate Data Sheet numbers for the aircraft, engine, and propeller. Applicable specifications or Type Certificate Data Sheet, if not attached to this export certificate, will have been forwarded to the appropriate governmental office of the importing country.

ENGINE LOG

1. Make LYCOMING
2. Model IO-360-M1A
3. Specification IE10
4. Manufacturer's Serial Number L-31739-57A
5. Date of Manufacture _____
6. Aircraft Inspection Cycle _____

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMMENTS. | SIGNATURE | LICENCE NUMBER |
|----------------------|--------------|--------------|---------------------|--------------|--|-------------------|-------------------|
| | HRS. | MIN. | HRS. | MIN. | | | |
| KNOW 2004 | 4 | 9 | 0 | 0 | ENGINE INSTALLATION NEW ON DATA | DA 013 | DA 013 |
| | | | | | Engine installation inspected I.A.W. Diamond Aircraft Industries W.O. # 999-F Engine service with 8 qts. of Philips 20W50 Type 'M' engine oil. Engine break-in I.A.W. Lycoming Service Instruction 1427B. FLIGHT TEST COMPLETED | | |
| | | | | | REPAIRS REQUIRED | | |
| | | | | | AOA Maintenance 319 N. Crystal Lake Dr. Orlando, FL 32803 407-228-4436 Friday, 7 January, 2005 | | |
| | | | | | N 597RA SN 40 4444 DA 40 Tach 29.6 TT 29.6 PERFORMED A 100 HOUR INSPECTION IN ACCORDANCE WITH DIAMOND MAINTENANCE MANUAL PERFORMED COMPRESSION CHECK. 1179/80 2177/80 3178/80 4180/80 DRAINED ENGINE OIL AND SERVICED WITH 8 QUARTS AEROSHELL W100 REPLACED OIL FILTER WITH NEW PM CH 48110-11 CERTIFY THIS ENGINE HAS BEEN INSPECTED I.A.W. A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION AT THIS TIME ...END... Ken Goff AVIATION CONSULTANT ASP 2753814 | | |
| 3/21/05 | 51 | 6 | 51 | 6 | Drained oil + replaced oil filter + valves checked and oil for MSB SSS fuel pump installed. No further action required. | | |
| 3/12/05 | 51 | 6 | 51 | 6 | oil. Turbomaster engine on the ground | | |
| 4/2/05 | 02 | 0 | 102 | 0 | Oil MSB 40-033 by manual inspection with oil Drained oil + Replaced filter in CH45110 C/WMSBVC-033 manually w/ one dipstick | | |
| 6-17-05 | 1069 | | | | SAC so engine oil. Turbomaster engine on to engine in Mdn DTR 26 ER | | |
| | | | | | CARRIED FORWARD | | |

TOTAL THIS PAGE
TOTAL FROM
PREVIOUS SUMMARY
TOTAL
SINCE MFG.

INST ALL ACTIONS, INSPECTIONS,
REPAIRS, ADJUSTMENTS, MODIFICATIONS,
MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | NOTES: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMMENTS. | SIGNATURE | LICENCE NUMBER |
|-----------------|----------|------|---------------------|------|---|-----------|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | |
| BROUGHT FORWARD | | | | | | | |

ENGINE LOG ENTRY
 10/16/05 HOBBS 1557
 NS97RA
 Removed oil filter and drained oil. Installed new oil filter PN CH48110. Filled engine with 68 qts. Aeroshell 100 oil. All work done IAW applicable service manual. Return to service.
 Stephen A. Travets A&P 39429927

ENGINE MODEL: NS97RA
ENGINE S/N: L3173951A
REG. NO: 6978A
WORK ORDER: 399-11-2005

Premier Aircraft Service, Inc.
 5540 NW 23rd Avenue Hanger 14
 Fort Lauderdale, FL 33309
 Phone: (954) 334-2393

DATE: 10/16/05
ACT'N: 1429
EXT: 1918
HOURS: 1918

Engine Entries
 CW ANNUAL INSPECTION ON THIS ENGINE IAW FAR 43 APPENDIX D AND DIAMOND DA-40 MM ANNUAL INSPECTION GUIDE.
 COMPRESSION CHECK #1 76/80 #2 76/80 #4 76/80 CHANGED OIL AND FILTER. SERVICED WITH 8 QTS OF AEROSHELL 100W PLUS AND NEW CH48110-1 FILTER. ENGINE WAS GROUND RUN AND LEAK CHECKED GOOD. CW AD 2002-26-01 INSPECTION AND FOUND NO DISCREPANCIES FOUND AT THIS TIME. CW 69 895 AND FOUND 68 NOT APPLICABLE DUE TO PART NUMBER. PN IS LW-18473 DATE CODE IS 3704 LYCOMING FUEL PUMP INSPECTION

Maintenance Release
 I certify this engine has been inspected in accordance with a 100 HPI Annual inspection and found to be in airworthy condition on this date. Aircraft is approved for return to service on this date.

DATE: 11/16/2005
SIGNED: Jack Wesley, D.A. 45987035

Work Order: 395-11-2005
 Printed by EBIS 3 (elcommedia.com)

ENGINE MODEL: Premier Aircraft Service, Inc.
ENGINE S/N: L3173951A
REG. NO: 6978A
WORK ORDER: 483-02-2006

DATE: 2/13/2006
SIGNED: Emmanuel Y. Casp, A&P 5921379251

Work Order: 483-02-2006
 Printed by EBIS 3 (elcommedia.com)

Engine Entries
 COMPLETED WITH INS-9-40-0441 EXHAUST SUPPORT MODIFICATION BY INSTALLING SERVICE KIT 7-1-REPLACED MUFFLER SHROUD WITH SERVICEABLE SHROUD.

This aircraft/engine is approved for return to service. *(handwritten)* Refer to work performed on this W/O on this date.

| | | | | | | | |
|-----------------------------|--|--|--|--|--|--|--|
| TOTAL THIS PAGE | | | | | | | |
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| TOTAL SINCE MFG. | | | | | | | |

REPAIRS, ADJUSTMENTS, MODIFICATIONS, THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

ENGINE MODEL: NS97RA
ENGINE S/N: L3173951A
REG. NO: 6978A
WORK ORDER: 640-05-2006

Premier Aircraft Service, Inc.
 5540 NW 23rd Avenue Hanger 14
 Fort Lauderdale, FL 33309
 Phone: (954) 334-2393

DATE: 5/23/2006
ACT'N: 1401
EXT: 1901
HOURS: 1901

Engine Entries
 CW ANNUAL INSPECTION ON THIS ENGINE IAW FAR 43 APPENDIX D AND DIAMOND DA-40 MM ANNUAL INSPECTION GUIDE.
 COMPRESSION CHECK #1 76/80 #2 76/80 #4 76/80 CHANGED OIL AND FILTER. SERVICED WITH 8 QTS OF AEROSHELL 100W PLUS AND NEW CH48110-1 OIL FILTER. ENGINE WAS GROUND RUN AND LEAK CHECKED GOOD. CW AD 2002-26-01 LYCOMING FUEL INJECTOR LINE AND CLAMP INSPECTION, NO DEFECTS NOTED

Maintenance Release
 I certify this engine has been inspected in accordance with a 100 HPI Annual inspection and found to be in airworthy condition on this date. Aircraft is approved for return to service on this date.

DATE: 5/23/2006
SIGNED: Jack Wesley, D.A. 45987035

Work Order: 640-05-2006
 Printed by EBIS 3 (elcommedia.com)

White Hawk Aviation
 12517 Beverly Ford Road
 Brandy Station, Va. 22714
Phone: 540-727-8400
Fax: 540-727-8411

NS97RA Diamond DA40 Serial number: 40-444
Date: 25 July 2006 Tach: 20428
 Drained oil, removed filter, inspected contents of filter element, nothing found. Installed new CH48110 at 18 ft lbs, safety wired in place. Serviced with 7qts Aeroshell 15W50. Run up, high power check, and leak checked ok.

Kevin Woodside AP2304122231A

White Hawk Aviation
 12517 Beverly Ford Road
 Brandy Station, Va. 22714
Phone: 540-727-8400
Fax: 540-727-8411

NS97RA Diamond DA40 Serial number: 40-444
Date: 21 November 2006 Tach: 2427
 Drained oil, removed filter, inspected contents of filter element, nothing found. Installed new CH48110 at 18 ft lbs, safety wired in place. Serviced with 7qts Aeroshell 15W50. Run up, high power check, and leak checked ok.

Kevin Woodside AP31222551A

White Hawk Aviation
 12517 Beverly Ford Road
 Brandy Station, Va. 22714
Phone: 540-727-8400
Fax: 540-727-8411

NS97RA Diamond DA40 Serial number: 40-444
Date: 22 May 2007 TACH: 2806
 Compression test readings 1=79/80 2=79/80 3=79/80 4=79/80. Inspected engine shock mounts, inspected engine controls for security, freedom of movement, and travel limits. Drained oil, removed filter, inspected contents of filter element, nothing found. Installed new CH48110 at 18 ft lbs, safety wired in place. Serviced with 7qts Aeroshell 15W50. Cleaned, gapped, and tested plugs; all found to be ok. Installed plugs with new M674 gaskets, torqued same at 30 foot-pounds. Inspected and tested plug leads. Mag timing checked ok at 25 degrees BTDC per engine data plate. Inspected all hoses, lines, fitting, and wires. Inspected inlets, exhaust, and muffler. Ran up, high power check, and leak checked ok. **AD's searched.**

Kevin Woodside AP31222551A

I certify this engine has been inspected IAW ANNUAL INSPECTION, as per annual inspection checklist and was determined to be in an AIRWORTHY condition.

Kevin Woodside AP31222551A

ENGINE SERVICE AND

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMMENTS. |
|-----------------|----------|------|---------------------|------|--|
| | HRS. | MIN. | HRS. | MIN. | |
| BROUGHT FORWARD | | | | | |

ENGINE MODEL: **PC-60 M1A**
 REG. NO. SN: **L31739-51A**
 WORK ORDER: **1503-09-2007**

Premier Aircraft Service, Inc.
 5540 NW 23rd Avenue, Suite 14
 Fort Lauderdale, FL 33309
 Phone: (954) 334-2393

DATE: 10/1/2007
 AEC T: 3374
 ENG T: 3374
 TACH: 3374

Engine Entries
 C/M A/D 2002-28-01 LYCOMING FUEL INJECTION LINE AND CLAMP INSPECTION, NO DEFECTS NOTED. NEXT DUE 100 HOURS FROM THIS TIME ... CHANGED OIL AND FILTER SERVICED WITH 8 QTS. AEROSHELL 100 PLUS AND NEW CHECKED OK.
 THIS ENGINE WAS GROUND RUN AND LEAK CHECKED OK. APPROVED FOR RETURN TO SERVICE ON THIS DATE. THIS RELEASE IS IN NO WAY CERTIFIES FUTURE AIRWORTHINESS.

DATE: 10/1/2007
 SIGNED: *[Signature]*
 Adam Alan, ACP 2701974
 Work Order: 1503-09-2007
 Printed by Etra 3 (datacomedia.com)

ENGINE MODEL: **PC-60 M1A**
 REG. NO. SN: **L31739-51A**
 WORK ORDER: **1503-09-2007**

Premier Aircraft Service, Inc.
 5540 NW 23rd Avenue, Suite 14
 Fort Lauderdale, FL 33309
 Phone: (954) 334-2393

DATE: 12/20/07
 AEC SN: 3331
 ENG SN: 3331
 TACH: 3331

Engine Entries
 C/M ANNUAL INSPECTION ON THIS ENGINE IAW FAR 43 APPENDIX D AND DA40 MM ANNUAL INSPECTION GUIDE
 COMPRESSION CHECK: CYL #1 70/80, #2 73/80, #3 75/80, #4 78/80. CHANGED OIL AND FILTER. SERVICED WITH 8 QTS
 LYCOMING FUEL INJECTION LINE AND CLAMP INSPECTION. NO DEFECTS NOTED. NEXT DUE 100 HOURS FROM THIS TIME.

Maintenance Release
 I certify this engine has been inspected in accordance with the Annual Inspection and found to be in conformity with condition on this date. Aircraft is approved for return to service on this date. THIS RELEASE IS IN NO WAY CERTIFIES FUTURE AIRWORTHINESS.

DATE: 12/20/07
 SIGNED: *[Signature]*
 Jack Wesley Dadd, IA 40997085
 Work Order: 1503-12-2007
 Printed by Etra 3 (datacomedia.com)

| DATE | TIME RUN | TIME SINCE OVERHAUL | NOTE |
|---------|----------|---------------------|--|
| 2-18-08 | 498.2 | | Maint oil, removed filter replaced we didn't find anything new 04/13/08 oil filter, saw with 7 qt. Diamond ground run no leak add. <i>[Signature]</i> A/P 3090 |
| | | | CARRIED FORWARD |

TOTAL THIS PAGE
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 TOTAL SINCE MFG.

MAINTENANCE RECORD

5/29/08 N597RA HOBBS 541.7
 Changed oil with 8 quarts of Aeroshell 15W-50 and installed new oil filter CH48110-1-1. Inspected and removed oil filter, no contamination found. Degraded engine, ground ran and leak checked. I certify that, with respect to the work performed, this engine is airworthy and is approved for return to service. Records are on file at this agency under W/O# 50853.
 signed *[Signature]* for RS PZ4R458M



(800) 366-9723
 (817) 266-6669

CFM
 CONSTANT SPEED MANUFACTURING
 625 Fitzhugh Boulevard
 Smyrna, TN 37167
 615.534.4600

Engine SN L31739-51A

MODEL: DA40
 S/N: 40444
 REG. N°: N597RA

DATE: 11-12-08
 TAT: 435.8
 TACH: 435.8
 ETSN: 435.8

Inspections:
 -Complied with a 100 Hr, 200Hr, and Annual inspection in accordance with Diamond DA40 AMM 5-20.
 -Compression Test Results: #1 74/80 #2 73/80 #3 72/80 #4 74/80
 AD's Accomplished:
 -Complied with AD 2008-14-07 Fuel injector line inspection in accordance with MSB No. 342E. Next inspection due Tach 535.8. AD's researched through 11-12-08.
 Maintenance Accomplished:
 -Removed, opened, inspected, closed and re-installed both magnetos in accordance with Sick MM and AMM 74-00.
 -Op Check Good.
 -Took S.O.A.P. sample as required.
 All work accomplished in accordance with manufacturer's AMM.
 I certify that this engine has been inspected in accordance with a 100Hr, 200Hr and Annual Inspection, was found to be in airworthy condition, and is approved for return to service.

Signed: *[Signature]* A/P 408960099IA
 Technician: Thomas R. Ladd
 Form CFM 007

| DATE | TIME RUN | TIME SINCE OVERHAUL | NOTE |
|---------|----------|---------------------|--|
| 2-19-09 | 514.6 | | Installed overhaul (A) Alternator on 920-8521 see TOLL 140 see Kelly, Aeroshell FAA Files 8130-3 for overhaul detail A/P 408960099IA |
| | | | MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS. |

ENGINE SERVICE AND

DATE

BROUGHT FORWARD

NS97RA Engine SN L-31739-51A
 3-26-09 Tach 552.6 Engine Total Time 552.6
 C-W AD 2008-14-07 fuel injection lines inspection due again in 100 hours. Compression checked #1 76/80 #2 72/80 #3 76/80 #4 78/80. Changed oil and filter serviced with 8 qts AeroShell 15W50 oil and CH48110-1 filter. Ran engine and operational. Checked good.
 I certify this Engine has been inspected in accordance with a 100 hour inspection and is approved for return to service.
 Michael A Noblin *M A Noblin* A&P2268659
 MidSouth Aviation

NS97RA Engine SN L-31739-51A
 5-27-09 Tach 647.1 Engine Total Time 647.1
 C-W AD 2008-14-17 fuel injection lines inspection due again in 100 Hours. Compression checked #1 75/80 #2 76/80 #3 72/80 #4 75/80. Cleaned fuel injectors. Changed oil and filter serviced with 7 QTS Phillips 20W50 oil and CH48110-1 filter. Tighten alternator belt. Ran Engine and operational checked good.
 I certify this Engine has been inspected in accordance with an Annual inspection and is approved for return to service.
 Michael A Noblin *M A Noblin* A&P2268659
 MidSouth Aviation

NS97RA Engine SN L-31739-51A
 7-23-09 Tach 748.7 Total Time 748.7
 C-W AD 2008-14-17 fuel injection lines inspection due again in 100 Hours. Changed oil and filter serviced with Phillips 20W50 and 48110-1 filter. Compression checked #1 74/80 #2 74/80 #3 75/80 #4 74/80. Replaced fuel servo hex plug gasket PN 2577258 in accordance with SB PRS-107R3 paragraph G. Ran Engine and Operational checked good.
 Michael A Noblin *M A Noblin* A&P2268659
 MidSouth Aviation

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| TOTAL THIS PAGE | | | |
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| TOTAL SINCE MFG. | | | |

CARRIED FORWARD

MAINTENANCE RECORD

NATURE

LICENCE NUMBER

NS97RA Engine SN L-31739-51A
 9-22-09 Tach 848.1 Engine Total Time 848.1
 C-W AD 2008-14-17 fuel injector lines inspection due again in 100 Hours. Changed oil and filter serviced with Phillips 20W50 and CH48110-1 filter. Compression checked #1 78/80 #2 74/80 #3 75/80 #4 75/80. Ran Engine and operational checked good.
 I certify this Engine has been inspected in accordance with a 100 Hour inspection and is approved for return to service.
 Michael A Noblin *M A Noblin* A&P2268659
 MidSouth Aviation

NS97RA Engine SN L-31739-51A
 11-13-09 Tach 949.4 Engine Total Time 949.4
 C-W AD 2008-14-17 fuel injection line inspection due again in 100 Hours. Changed oil and filter serviced with Phillips 20W50 oil and CH48110-1 filter. Compression checked #1 75/80 #2 76/80 #3 74/80 #4 74/80. Ran Engine and operational checked good.
 I certify this Engine has been inspected in accordance with a 100 Hour inspection and is approved for return to service.
 Michael A Noblin *M A Noblin* A&P2268659
 MidSouth Aviation

NS97RA Engine SN L-31739-51A
 3-15-2010 Tach 1049.2 Engine Total Time 1049.2
 C-W AD 2008-14-07 fuel injection line inspection due again in 100 Hours. Found AD 2009-26-12 Titan Cylinders to not apply. Changed Oil and filter serviced with Phillips 20W50 and CH48110-1 filter.
 C-W 500 hour inspection on both magnetos. Cleaned fuel injectors. Compression checked #1 75/80 #2 76/80 #3 75/80 #4 77/80.
 Ran Engine and operational checked good.
 I certify this Engine has been inspected in accordance with an Annual inspection and is approved for return to service.
 Michael A Noblin *M A Noblin* A&P2268659
 MidSouth Aviation

NS97RA Engine SN L-31739-51A
 6-23-2010 HM 1151.5 Engine Total Time 1151.5
 C-W AD 2008-14-07 fuel injection line inspection due again in 100 Hours. Compression checked #1 73/80 #2 73/80 #3 71/80 #4 76/80. Changed oil and filter serviced with Phillips 20W50 and CH48110-1 Filter. Ran engine and operational checked good.
 I certify this Engine has been inspected in accordance with a 100 hour inspection and is approved for return to service.
 Michael A Noblin *M A Noblin* A&P2268659
 MidSouth Aviation

ENGINE SERVICE AND

INS97RA Engine SN L-31739-57A
 10-1-2010 Tach 1249.9 Engine Total Time 1249.9
 C-W AD 2008-14-07 fuel injection line inspection due again in
 100 hours. Compression checked #1 76/80 #2 77/80 #3 74/80
 #4 78/80. Changed oil and filter serviced oil with Phillips 20W50
 And CH48110-1 filter.
 I certify this Engine has been inspected in accordance with a
 100 hour inspection and is approved for return to service.
 Michael A Noblin
 MidSouth Aviation
 A&P2268659

February 14, 2011

ENGINE LOGBOOK ENTRY
 DIAMOND DA40-180 SN: 40,444
 TACH: 1337.9 TTE: 1337.9
 LYCOMING IO-360-M1A SN: L-31739-51A

Drained engine oil, and replaced oil filter with new
 AA48110. Sonic-clean fuel nozzles. Clean, and inspect spark
 plugs. Check engine timing IAW maintenance manual, R&R
 seat hose for cabin heat, battery box, and alternator. Service
 engine with 8qts AS15W50. Solvent wash engine, run-up
 and leak check.

Tim Goddard 2802055AP

February 18, 2011

ENGINE LOGBOOK ENTRY
 DIAMOND DA40-180 SN: 40,444
 TACH: 1344.9 TTE: 1344.9
 LYCOMING IO360-M1A SN: L-31739-51A

Complied with AD 2010-13-10 Prop governor, IAW SR-08
 353 by returning unit to ONTIC for inspection and repair
 under their W/O# GVN11-0002. Received FAA Form 8130-1
 with repaired governor. Installed governor with new gaskets
 and checked for proper operation. R&R valve cover gaskets
 with RG-75906 FAA-PMA gaskets IAW installation and
 maintenance instructions.

Tim Goddard 2802055AP

MAINTENANCE RECORD

INS97RA S/N: 40,444 TTE: 1374.4
 Diamond DA40-180 IO-360-M1A S/N: L-31739-51A TENG: 1374.4
 Lycoming TACH: 1374.4
 1 April 2011
 Engine inspected in accordance with Diamond Aircraft Maintenance Manual and FAR 43, Appendix D.
 Reviewed AD's thru 2009-26-12 for applicability and compliance. Engine leak and ops checked on
 ground run. I certify this engine has been inspected in accordance with an annual inspection and
 found to be in an airworthy condition.
 Gene Dzub
 AP21022451A

April 11, 2011

ENGINE LOGBOOK ENTRY
 DIAMOND DA40-180 SN: 40,444
 TACH: 1384.9 TTE: 1384.9
 LYCOMING IO-360-M1A SN: L-31739-51A

Removed and replaced tachometer Assembly Sensor with
 new P/N: 0406-003-WIP. Performed flight test to check for
 proper operation.
 Tim Goddard 2802055AP

April 25, 2011

ENGINE LOGBOOK ENTRY
 DIAMOND DA40-180 SN: 40,444
 TACH: 1400.0 TTE: 1400.0
 LYCOMING IO-360-M1A SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110.
 Service engine with 8 qts of AS100W-PLUS engine oil.
 Cleaned and tested spark plugs, and re-install with new
 M674 gaskets. Clean and service induction air filter. Service
 starter IAW 50hour maintenance. This engine has been
 inspected IAW Lycoming Service Manual for a 100 hour
 inspection.
 Tim Goddard 2802055AP

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

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| TOTAL THIS PAGE | |
| TOTAL FROM PREVIOUS SUMMARY | |
| TOTAL SINCE MFG. | |

ENGINE SERVICE AND

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMMENTS. |
|------|----------|------|---------------------|------|--|
| | HRS. | MIN. | HRS. | MIN. | |

MAY 21, 2011

ENGINE LOGBOOK ENTRY

DIAMOND DA40-180 SN: 40,444
TACH: 1450.0 TTE: 1450.0
LYCOMING IO-360-M1A SN: L-31739-51A

- Drained engine oil and R&R oil filter with new AA48110.
- Service engine with 8 qts of ASI100W-PLUS engine oil.
- Cleaned and tested spark plugs, and re-install with new M674 gaskets. Checked and reset magneto timing. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection. -END-

Tim Goddard 2802055AP

June 21, 2011

ENGINE LOGBOOK ENTRY

DIAMOND DA40-180 SN: 40,444
TACH: 1500.0 TTE: 1500.0
LYCOMING IO-360-M1A SN: L-31739-51A

- Drained engine oil and R&R oil filter with new AA48110.
- Service engine with 8 qts of ASI100W-PLUS engine oil.
- Cleaned and tested spark plugs, and re-install with new M674 gaskets. Clean and service induction air filter. R&R starter with new Sky-Tec MN: 149-24LS, SN: F4L-501011. CW AD 2008-14-07 by visual inspection. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection. -END-

Tim Goddard 2802055AP

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS, REPAIRS, DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

August 18, 2011

ENGINE LOGBOOK ENTRY

DIAMOND DA40-180 SN: 40,444
TACH: 1600.0 TTE: 1600.0
LYCOMING IO-360-M1A SN: L-31739-51A

- Drained engine oil and R&R oil filter with new AA48110.
- Service engine with 8 qts of ASI100W-PLUS engine oil.
- Cleaned and tested spark plugs, and re-install with new M674 gaskets. Clean and service induction air filter. R&R alternator mounting bracket P/N: 07A19474. CW AD 2008-14-07 by visual inspection. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection. -END-

Tim Goddard 2802055AP

SEPTEMBER 30, 2011

ENGINE LOGBOOK ENTRY

DIAMOND DA40-180 SN: 40,444
TACH: 1650.0 TTE: 1650.0
LYCOMING IO-360-M1A SN: L-31739-51A

- Drained engine oil and R&R oil filter with new AA48110.
- Service engine with 8 qts of ASI100W-PLUS engine oil.
- Cleaned and tested spark plugs, and re-install with new M674 gaskets. Checked magneto timing. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection. -END-

Tim Goddard 2802055AP

November 25, 2011

ENGINE LOGBOOK ENTRY

DIAMOND DA40-180 SN: 40,444
TACH: 1700.0 TTE: 1700.0
LYCOMING IO-360-M1A SN: L-31739-51A

- Drained engine oil and R&R oil filter with new AA48110.
- Service engine with 8 qts of ASI100W-PLUS engine oil.
- Cleaned and tested spark plugs, and re-install with new M674 gaskets. Clean and service induction air filter. CW AD 2008-14-07 by visual inspection. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection. -END-

Tim Goddard 2802055AP

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| TOTAL THIS PAGE | |
| TOTAL FROM PREVIOUS SUMMARY | |
| TOTAL SINCE MFG. | |

CARRIED FORWARD

MAXIMUM HOURS BETWEEN

December 28, 2011

ENGINE LOGBOOK ENTRY

N597RA

ENGINE SERVICE AND

INSTALLATIONS, INSPECTIONS,

AND AS MANY LINES AS REQUIRED FOR COMMENTS.

DIAMOND DA40-180
TACH: 1700.0
LYCOMING IO-360-M1A

SN: 40,444
TTE: 1700.0
SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110. Service engine with 8 qts of AS100W-PLUS engine oil. Cleaned and tested spark plugs, and re-install with new M674 gaskets. Checked magneto timing. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection.-END-

Tim Goddard 2802055AP

February 20, 2012

ENGINE LOGBOOK ENTRY

N597RA

DIAMOND DA40-180

TACH: 1750.0

LYCOMING IO-360-M1A

SN: 40,444
TTE: 1750.0
SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110. Service engine with 8 qts of AS100W-PLUS engine oil. Cleaned and tested spark plugs, and re-install with new M674 gaskets. Checked magneto timing. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection.-END-

Tim Goddard 2802055AP

MAINTENANCE RECORD

22 MAR 2012

Diamond DA40-180 N597RA
IO-360-M1A

S/N: 40-444 TACH: 1764.0 TTF: 1764.0
S/N: L-31739-51A TTENG: 1764.0

Inspected engine in accordance with FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru AD 2012-03-06. Engine leak and ops checked good on ground run. I certify this engine has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

Gene Daub
AP21022451A

May 13, 2012

ENGINE LOGBOOK ENTRY

N597RA

DIAMOND DA40-180

TACH: 1800.0

LYCOMING IO-360-M1A

SN: 40,444
TTE: 1800.0
SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110. Service engine with 8 qts of AS15W-50 engine oil. Cleaned and tested spark plugs, and re-install with new M674 gaskets. Clean and service induction air filter. CW AD 2008-14-07 by visual inspection. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection.-END-

Tim Goddard 2802055AP

March 21, 2012

ENGINE LOGBOOK ENTRY

N597RA

DIAMOND DA40-180

TACH: 1764.0

LYCOMING IO-360-M1A

SN: 40,444
TTE: 1764.0
SN: L-31739-51A

Cleaned and tested spark plugs, and re-install with new M674 gaskets. Clean and service induction air filter. CW AD 2011-26-04 by visual inspection. Compression: 1-78, 2-78, 3-76, 4-78 @ 80 psi. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection.-END-

Tim Goddard 2802055AP

September 12, 2012

ENGINE LOGBOOK ENTRY

N597RA

DIAMOND DA40-180

TACH: 1850.0

LYCOMING IO-360-M1A

SN: 40,444
TTE: 1850.0
SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110. Service engine with 8 qts of AS100W-PLUS engine oil. Cleaned and tested spark plugs, and re-install with new M674 gaskets. Checked magneto timing. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection.-END-

Tim Goddard 2802055AP

| | |
|-----------------------------|--|
| TOTAL THIS PAGE | |
| TOTAL FROM PREVIOUS SUMMARY | |
| TOTAL SINCE MFG. | |

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLIANCE. |
|------|----------|------|---------------------|------|--|
| | HRS. | MIN. | HRS. | MIN. | |

September 21, 2012

ENGINE LOGBOOK ENTRY N597RA

DIAMOND DA40-180 SN: 40,444
TACH: 1860.3 TTE: 1860.3
LYCOMING IO-360-M1A SN: L-31739-51A

Remove and replaced Slick Start P/N: SS1001 with new unit. Performed operational check and found satisfactory. Aircraft returned to service.-END-

Tim Goddard
Tim Goddard 2802055AP

November 20, 2012

ENGINE LOGBOOK ENTRY N597RA

DIAMOND DA40-180 SN: 40,444
TACH: 1900.0 TTE: 1900.0
LYCOMING IO-360-M1A SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110. Service engine with 8 qts of ASI15W-50 engine oil. Cleaned and tested spark plugs, and re-install with new M674 gaskets. Clean and service induction air filter. CW AD 2008-14-07 by visual inspection. Cleaned fuel nozzles. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection.-END-

Tim Goddard
Tim Goddard 2802055AP

March 4, 2013

ENGINE LOGBOOK ENTRY N597RA

DIAMOND DA40-180 SN: 40,444
TACH: 1943.9 TTE: 1943.9
LYCOMING IO-360-M1A SN: L-31739-51A

Cleaned and tested spark plugs, and re-install with new M674 gaskets. Clean and service induction air filter. CW AD 2011-26-04 by visual inspection. Compression: 1-76, 2-76, 3-79, 4-78 @ 80 psi. R&R LT & RT Magnets with new. S/N: (right) 13020713, (left) 12120903. This engine has been inspected IAW Lycoming Service Manual for 100 hours of inspection.-END-

Tim Goddard
Tim Goddard 2802055AP

MAINTENANCE RECORD

Diamond DA40-180 N597RA S/N: 40-444 TACH: 1943.9 TTE: 1943.9 March 5, 2013
IO-360-M1A S/N: L-31739-51A TTE: 1943.9

Inspected engine in accordance with FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru AD 2012-03-06. Engine leak and ops checked good on ground run. I certify this engine has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

Gene Daub
Gene Daub
AP21022451A

March 25, 2013

ENGINE LOGBOOK ENTRY N597RA

DIAMOND DA40-180 SN: 40,444
TACH: 1950.0 TTE: 1950.0
LYCOMING IO-360-M1A SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110. Service engine with 8 qts of ASI100W-PLUS engine oil. Cleaned and tested spark plugs, and re-install with new M674 gaskets. Checked magneto timing. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection.-END-

Tim Goddard
Tim Goddard 2802055AP

April 16, 2013

ENGINE LOGBOOK ENTRY N597RA

DIAMOND DA40-180 SN: 40,444
TACH: 1958.6 TTE: 1958.6
LYCOMING IO-360-M1A SN: L-31739-51A

Remove and replaced ignition harness with new, perform engine run-up and operational check.-END-

Tim Goddard
Tim Goddard 2802055AP

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

TIME SINCE
 TIME RUN
 INSTALLATIONS, INSPECTIONS,
 REPAIRS, ADJUSTMENTS, MODIFICATIONS,
 TH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION.

MINUTES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.
 SIGNATURE
 LICENSE NUMBER

MAY 28, 2013
 ENGINE LOGBOOK ENTRY
 NS97RA
 SN: 40,444
 TTE: 2000.0
 DIAMOND DA40-180
 LYCOMING IO-360-M1A SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110.
 Service engine with 8 qts of AS15W-50 engine oil. Cleaned and tested spark plugs, and re-install with new M674 gaskets. Clean and service induction air filter. CW AD 2008-14-07 by visual inspection. Cleaned fuel nozzles. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection.-END
 Tim Goddard 2802055AP

August 22, 2013
 ENGINE LOGBOOK ENTRY
 NS97RA
 SN: 40,444
 TTE: 2050.0
 DIAMOND DA40-180
 LYCOMING IO-360-M1A SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110.
 Service engine with 8 qts of AS150W-PLUS engine oil. Cleaned and tested spark plugs, and re-install with new M674 gaskets. Checked magneto timing. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection.-END
 Tim Goddard 2802055AP

NOV 1, 2013
 ENGINE LOGBOOK ENTRY
 NS97RA
 SN: 40,444
 TTE: 2100.0
 DIAMOND DA40-180
 LYCOMING IO-360-M1A SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110.
 Service engine with 8 qts of AS15W-50 engine oil. Cleaned and tested spark plugs, and re-install with new M674 gaskets. Clean and service induction air filter. CW AD 2008-14-07 by visual inspection. Cleaned fuel nozzles. Compression: 1-78, 2-79, 3-76, 4-78. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection.-END
 Tim Goddard 2802055AP

NOV 12, 2013
 ENGINE LOGBOOK ENTRY
 NS97RA
 SN: 40,444
 TTE: 2104.5
 DIAMOND DA40-180
 LYCOMING IO-360-M1A SN: L-31739-51A

Remove and replace top spark plugs in # 1 and #3 cylinders with new Tempest UREM385. Reset engine timing.-END
 Tim Goddard 2802055AP

January 6, 2014
 ENGINE LOGBOOK ENTRY
 NS97RA
 SN: 40,444
 TTE: 2150.0
 DIAMOND DA40-180
 LYCOMING IO-360-M1A SN: L-31739-51A

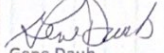
Drained engine oil and R&R oil filter with new AA48110.
 Service engine with 8 qts of AS150W-PLUS engine oil. Cleaned and tested spark plugs, and re-install with new M674 gaskets. Checked magneto timing. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection.-END
 Tim Goddard 2802055AP

March 31, 2014
 ENGINE LOGBOOK ENTRY
 NS97RA
 SN: 40,444
 TTE: 2167.4
 DIAMOND DA40-180
 LYCOMING IO-360-M1A SN: L-31739-51A

Cleaned and tested spark plugs, and re-install with new M674 gaskets. Clean and service induction air filter. CW AD 2011-26-04 by visual inspection. Compression: 1-78, 2-78, 3-78, 4-78 @ 80 psi. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection.-END
 Tim Goddard 2802055AP

Diamond DA40-180 N597RA S/N: 40-444 TACH: 2167.4 TTAF: 2167.4 April 1, 2014
 Lycoming IO-360-M1A S/N: L-31739-51A TTENG: 2167.4

Inspected engine. Ref: FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru AD 2012-03-06. CW AD 2011-26-04 by inspection per S/B 342F. Engine leak and ops checked good on ground run. I certify this engine has been inspected in accordance with an annual inspection and found to be in an airworthy condition.


 Gene Daub
 AP21022451A

HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

DATE TIME RUN OVERHAUL TIME SINCE OVERHAUL
 HRS. MIN. HRS. MIN. NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR CORRECT

REPAIRS, ADJUSTMENTS, MODIFICATIONS
 SIGNATURE LICENCE NUMBER

INSTALLATIONS, INSPECTIONS,
 HOURS, DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

10

May 16, 2014

ENGINE LOGBOOK ENTRY

NS97RA

DIAMOND DA40-180

SN: 40.444

TACH: 2200.0

TTE: 2200.0

LYCOMING IO-360-M1A

SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110.

Service engine with 8 qts of AS15W-50 engine oil. Cleaned and tested spark plugs and replaced (4) with new. Clean and service induction air filter. CW AD 2008-14-07 by visual inspection next due 2300 hrs. Cleaned fuel nozzles. Compression: 1-78, 2-78, 3-77, 4-77. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection.-END-

Tim Goddard 2802055AP

May 30, 2014

ENGINE LOGBOOK ENTRY

NS97RA

DIAMOND DA40-180

SN: 40.444

LYCOMING IO-360-M1A

SN: L-31739-51A

AD 67-01-04 Not applicable as Superior Flow Oil Filter not installed.

AD 2012-19-01 Not applicable by engine model.

Tim Goddard 2802055AP

July 3, 2014

ENGINE LOGBOOK ENTRY

NS97RA

DIAMOND DA40-180

SN: 40.444

TACH: 2250.0

TTE: 2250.0

LYCOMING IO-360-M1A

SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110.

Service engine with 8 qts of AS100W-PLUS engine oil. Cleaned and tested spark plugs, and re-install with new M674 gaskets. Checked magneto timing. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection.-END-

Tim Goddard 2802055AP

| | | |
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| TOTAL FROM PREVIOUS SUMMARY | | |
| TOTAL SINCE MFG. | | |

October 9, 2014

ENGINE LOGBOOK ENTRY

NS97RA

DIAMOND DA40-180

SN: 40.444

TACH: 2300.0

TTE: 2300.0

LYCOMING IO-360-M1A

SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110.

Service engine with 8 qts of AS15W-50 engine oil. Cleaned and tested spark plugs. Clean and service induction air filter. CW AD 2008-14-07 by visual inspection next due 2300 hrs. Cleaned fuel nozzles. Compression: 1-78, 2-76, 3-78, 4-77. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection.-END-

Tim Goddard 2802055AP

October 15, 2014

ENGINE LOGBOOK ENTRY

NS97RA

DIAMOND DA40-180

SN: 40.444

TACH: 2305.0

TTE: 2305.0

LYCOMING IO-360-M1A

SN: L-31739-51A

REMOVE AND REPLACE #2 EXHAUST RISER PN DA40-103 WITH NEW PART AND GASKET.-END-

Tim Goddard 2802055AP

December 12, 2014

ENGINE LOGBOOK ENTRY

NS97RA

DIAMOND DA40-180

SN: 40.444

TACH: 2350.0

TTE: 2350.0

LYCOMING IO-360-M1A

SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110.

Service engine with 8 qts of AS 15W50 engine oil. Cleaned, tested, and rotated spark plugs, and re-install with new M674 gaskets. Checked magneto timing. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection.-END-

Tim Goddard 2802055AP

HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | INSTALLATIONS, INSPECTIONS, REPAIRS, ADJUSTMENTS, MODIFICATIONS DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS. | SIGNATURE | LICENCE NUMBER |
|------|----------|------|---------------------|------|---|-----------|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | |

April 1, 2015

ENGINE LOGBOOK ENTRY

DIAMOND DA40-180 SN: 40.444
TACH: 2400.0 TTE: 2400.0
LYCOMING IO-360-M1A SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110. Service engine with 8 qts of ASI5W-50 engine oil. Cleaned and tested spark plugs. Clean and service induction air filter. CW AD 2008-14-07 by visual inspection next due 2500 hrs. Cleaned fuel nozzles. Compression: 1-76, 2-77, 3-76, 4-75. This engine has been inspected IAW Lycoming Service Manual for a 100 hour inspection. -END-

Tim Goddard 2802055AP

June 27, 2015
ENGINE LOGBOOK ENTRY
DIAMOND DA40-180 SN: 40.444
TACH: 2419.8 TTE: 2419.8
LYCOMING IO-360-M1A SN: L-31739-51A

Remove engine for overhaul. Fuel injection system overhauled by Mike's Aircraft Fuel Welding WOH 27415. Cylinders overhauled by Gibson Aviation, LLC WOH 16657 including new #10 pistons, #10 rings, and valves. Engine Components, INC inspected/overhauled the following parts: Connecting Rods, Rocker Arms, new Ulfert Bodies, Oil Pump Body, Crankshaft, Crankshaft, Cam and Magneto Gears, Accessory Case, and Crankcase. Assembled engine with new bearings, gaskets, seals, and hardware IAW LYCOMING OVERHAUL MANUAL. R&R mechanical fuel pump. Replaced engine shock mounts with new Lord PN: J9613-58. Serviced engine with 8 qts ASI50W-Mineral Oil and new AA48110 filter. -END-

Tim Goddard 2802055AP

Diamond DA40-180 N597RA S/N: 40-444 TACH: 2419.8 TTE: 2419.8 June 29, 2015
Lycoming IO-360-M1A S/N: L-31739-51A TTE: 2419.8 TSMOH: 0.0

Inspected engine. Ref: FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru AD 2012-19-01. CW AD 2011-26-04 by inspection per S/B 342F. Engine leak and ops checked good on ground run. I certify this engine has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

Gene Daud
AP21022451A

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| TOTAL THIS PAGE | | | | |
| TOTAL FROM PREVIOUS SUMMARY | | | | |
| TOTAL SINCE MFG. | | | | |

July 3, 2015

ENGINE LOGBOOK ENTRY

DIAMOND DA40-180 SN: 40.444
TACH: 2427.6 TTSOH: 7.8 TTE: 2427.6
LYCOMING IO-360-M1A SN: L-31739-51A

Changed engine oil and filter. Inspect and clean sump screen. Serviced engine with 8qts PHILLIPS 66 X/C 20W-50. Adjusted idle and idle Mixture setting. -END-

Tim Goddard 2802055AP

August 5, 2015
ENGINE LOGBOOK ENTRY

DIAMOND DA40-180 SN: 40.444
TACH: 2450.0 TSOH: 30.2 TTE: 2450.0
LYCOMING IO-360-M1A SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110. Service engine with 8 qts of PHILLIPS X/C 20W50 engine oil. Cleaned, tested, and rotated spark plugs, and re-install with new M674 gaskets. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection. -END-

Tim Goddard 2802055AP

FEBRUARY 18, 2016
ENGINE LOGBOOK ENTRY

DIAMOND DA40-180 SN: 40.444
TACH: 2500.0 TSOH: 80.2 TTE: 2500.0
LYCOMING IO-360-M1A SN: L-31739-51A

Drained engine oil and R&R oil filter with new AA48110. Service engine with 8 qts of PHILLIPS X/C 20W50 engine oil. Cleaned, tested, and rotated spark plugs, and re-install with new M674 gaskets. Service starter IAW 50hour maintenance. This engine has been inspected IAW Lycoming Service Manual for a 50 hour inspection. -END-

Tim Goddard 2802055AP

MAXIMUM HOURS BETWEEN OVER

June 13, 2016
 ENGINE LOGBOOK ENTRY

DIAMOND DA40-180 SN: 40.444
 TACH: 2537.6 TTSOH: 117.8 TTE: 2537.6
 LYCOMING IO-360-M1A SN: L-31739-51A

Clean, inspect and test spark plugs. Re-installed spark plugs with new M674 gaskets. Perform 50 hour starter service. Checked P-Leads and engine timing. CW AD 2015-19-07 Fuel line clamps. Solvent wash engine. Compressions: 1-78, 2-78, 3-78, 4-77 @ 80 psi. This engine has been inspected IAW FAR 43 Appendix (D) for a 100 hour inspection.-END-

Tim Goddard 2802055AP

-Diamond DA40-180 NS97RA S/N: 40.444 TACH: 2537.6
 IO-360-M1A S/N: L-31739-51A TTEng: 2537.6 TSMOH: 117.8

Inspected engine. Ref: FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru AD 2015-19-07. CW AD 2015-19-07 by inspection per S/B 342G. Engine leak and ops checked good on ground run. I certify this engine has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

Gene Daud
 AP21022451A

ENGINE SERVICE AND

INST ALL ACTIONS, INSPECTIONS,
 BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE

June 14, 2016
 TAF: 2537.6 TENG: 2537.6 TSMOH: 117.8

October 31, 2016
 ENGINE LOGBOOK ENTRY NS97RA

DIAMOND DA40-180 SN: 40.444
 TACH: 2547.3 TTSOH: 127.5 TTE: 2547.3
 LYCOMING IO-360-M1A SN: L-31739-51A

CW Lycoming MS8 475C and MS8 533A Disassembly and inspection of Rotating Parts as a result of a Prop Strike. Crankshaft & Gear assembly inspected by Aircraft Specialties Services WOH 239113. Crankshaft and Gear returned with Yellow Tags (FAA Form 8130-3) filed in aircraft records. Replaced Crank Bolt SLD-2213 IAW AD 2004-10-14. Re assembled engine with new Rod Bolts PN SLD75061 and Nuts PN SLD12186 and Major O/VH Gasket Set SLD75439-1. Serviced with BGTS AS15W50 and performed Run-in and Leak-check.-END-

Kim Goddard 2802055AP

NOVEMBER 22, 2017
 ENGINE LOGBOOK ENTRY

DIAMOND DA40-180 SN: 40.444
 TACH: 2548.8 TTSOH: 129.0 TTE: 2548.8
 LYCOMING IO-360-M1A SN: L-31739-51A

Clean, inspect and test spark plugs. Re-installed spark plugs with new M674 gaskets. Perform 50 hour starter service. Checked P-Leads and engine timing. CW AD 2015-19-07 Fuel line clamps. Solvent wash engine. Compressions: 1-78, 2-78, 3-78, 4-77 @ 80 psi. This engine has been inspected IAW FAR 43 Appendix (D) for a 100 hour inspection.-END-

Tim Goddard 2802055AP

MAINTENANCE RECORD

DIAMOND DA40-180 NS97RA S/N: 40.444 TACH: 2537.6 TAF: 2548.8 Nov 24, 2017
 LYCOMING IO-360-M1A S/N: L-31739-51A TENG: 2548.8 TSMOH: 129.0

Inspected engine. Ref: FAR 43, Appendix D. Reviewed AD's for applicability and compliance thru AD 2015-19-07. CW AD 2015-19-07 by inspection per S/B 342G. Engine leak and ops checked good on ground run. I certify this engine has been inspected in accordance with an annual inspection and found to be in an airworthy condition.

Gene Daud
 AP21022451A



Date: 5-8-2018
 TSMOH:

Aircraft: NS97RA
 Cycle:

SN: 40.444
 Tach: 2601.44

Changed oil and filter using Aeroshell 15W50. Runup and leak test good.

Whiskey Kilo Yankee, LLC A&P2964741A

CHARTER AIRCRAFT MANAGEMENT - FULL SERVICE PRO - MAINTENANCE
 Dan Davis Aviation, Inc. - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone: 270 626 6000 - Fax: 270 826 6040

Whiskey Kilo Yankee, LLC

Date: 9-29-2018 Aircraft: NS97RA SN: 40.444
 Lycoming IO-360-M1A TACH: 2651.5 TSMOH: 242.9

Changed engine oil and filter using Phillips XIC 20W50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell 3383373 ATP

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

12 Remarks

| | | | | | | | | | |
|----|---|--|--|--|--|--|--|--|--|
| 1 | GEAR | 13519640 | | | | | | | |
| 2 | INSPECTION | | | | | | | | |
| 3 | QUANTITY | | | | | | | | |
| 4 | REPAIR STATION NO. | DD2R764K | | | | | | | |
| 5 | WORK ORDER | AS1072293 | | | | | | | |
| 6 | FAA / AIA / ICAO | | | | | | | | |
| 7 | APPROVING CIVIL AVIATION AUTHORITY / COUNTRY | | | | | | | | |
| 8 | FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG | | | | | | | | |
| 9 | ORGANIZATION | AIRCRAFT SPECIALTIES SERVICES, INC. PHONE (918) 836-6872 2860 NORTH SHERMAN ROAD TUTSA, OK 74115 FAX (918) 836-4419 | | | | | | | |
| 10 | QUANTITY | 239113 | | | | | | | |
| 11 | REPAIR WORK | | | | | | | | |
| 12 | PERFORMED MAGNETIC PARTICLE INSPECTIONS MEET FIG 5 OF LYCOMING SR 475C DT 30 JAN 2003 | | | | | | | | |

PART TRACKING NO. 239113-2

ENGINE SERVICE AND



Going your way every day since 1957
Aircraft Logbook Entry

Date: 11-14-2018
TSMOH:
Aircraft: N597RA
TTAF: 2868.9
SN:
Tach: 2868.9

Annual inspection completed this date. Comps as follows: 1=71.80, 2=70.80, 3=76.80, 4=76.80, AD's checked thru CD2018-22. Complied with AD2015-19-07 by inspection of the fuel injection lines. I certify that this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE FHO - MAINTENANCE
A&P32964741A

Don Davis Aviation, Inc - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6000 - Fax 270 826 6040

Whiskey Kilo Yankee, LLC

Date: 2-7-2019 Aircraft: N597RA SN: 40.444
Lycoming IO-360-M1A TACH: 2700.5 TSMOH: 291.9

Changed engine oil and filter using Phillips X/C 20W50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell Nicholas Bell 3383373 ATP

Whiskey Kilo Yankee, LLC

Date: 5-14-2019 Aircraft: N597RA SN: 40.444
Lycoming IO-360-M1A TACH: 2744.1 TSMOH: 324.3

Changed engine oil and filter using Phillips X/C 20W50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell Nicholas Bell 3383373 ATP

| | | | | | |
|-----------------------------|--|--|--|--|--|
| TOTAL THIS PAGE | | | | | |
| TOTAL FROM PREVIOUS SUMMARY | | | | | |
| TOTAL SINCE MFG. | | | | | |

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS
ENTER HERE. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

Whiskey Kilo Yankee, LLC

Date: 7-23-2019 Aircraft: N597RA SN: 40.444
Lycoming IO-360-M1A TACH: 2793.1 TSMOH: 373.3

Changed engine oil and filter using Phillips X/C 20W50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell Nicholas Bell 3383373 ATP



Going your way every day since 1957
Aircraft Logbook Entry

Date: 11/13/2019 Aircraft: N597RA SN: 40.444
TSMOH: TTAF: 2836.9 Tach: 2836.9

Annual inspection completed this date. Oil and filter changed using Phillips XC20W50. Comps as follows: 1=76.80, 2=74.80, 3=76.80, 4=72.80. AD's checked thru CD2019-22. Complied with AD2015-19-07 by inspection of the fuel injection lines. I certify that this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE FHO - MAINTENANCE
A&P38369891A

Don Davis Aviation, Inc - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6000 - Fax 270 826 6040

Cardinal Aviation Murray, KY 42071

March 28 2020 N597RA Tach time 2878.8
Adjusted mixture cable mount, adjusted idle RPM, adjusted idle mixture
Ernest Link A&P 191.3694 *Ernest Link*

HOURS.

ENGINE SERVICE AND

NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE

NOVEMBER 18, 2020
ENGINE LOGBOOK ENTRY
DIAMOND DA40-180 SN: 40,444
TACH: 3012.3 TTSOH: 592.5 TTE: 3012.3
LYCOMING IO-360-M1A SN: L-31739-51A

Whiskey Kilo Yankee, LLC

Date: 5-3-2020 Aircraft: N597RA SN: 40,444
Lycoming IO-360-M1A TACH: 2884.7 TSMOH: 464.9
Changed engine oil and filter using Phillips X/C 20W50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell
Nicholas Bell 3383373 ATP

Whiskey Kilo Yankee, LLC

Date: 7-12-2020 Aircraft: N597RA SN: 40,444
Lycoming IO-360-M1A TACH: 2935.0 TSMOH: 515.2
Changed engine oil and filter using Phillips X/C 20W50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell
Nicholas Bell 3383373 ATP

Whiskey Kilo Yankee, LLC

Date: 10-4-2020 Aircraft: N597RA SN: 40,444
Lycoming IO-360-M1A TACH: 2981.7 TSMOH: 561.9
Changed engine oil and filter using Phillips X/C 20W50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell
Nicholas Bell 3383373 ATP

NOVEMBER 18, 2020
ENGINE LOGBOOK ENTRY
DIAMOND DA40-180 SN: 40,444
TACH: 3012.3 TTSOH: 592.5 TTE: 3012.3
LYCOMING IO-360-M1A SN: L-31739-51A

Whiskey Kilo Yankee, LLC

Date: 03-31-2021 Aircraft: N597RA SN: 40,444
Lycoming IO-360-M1A TACH: 3098.8 TSMOH: 679.0
Performed engine magneto timing. Adjustments made for proper timing on left magneto.

Brad Herron
Brad Herron 3669119 A&P

Whiskey Kilo Yankee, LLC

Date: 03-31-2021 Aircraft: N597RA SN: 40,444
Lycoming IO-360-M1A TACH: 3060.6 TSMOH: 640.8
Changed engine oil and filter using Aeroshell 15W-50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell
Nicholas Bell 3383373 ATP

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|-----------------------------|-----------|---------------------|--|
| BROUGHT FORWARD | TIME RUN | TIME SINCE OVERHAUL | INST ALL ACTIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE |
| | HRS. MIN. | HRS. MIN. | |
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| TOTAL SINCE MFG. | | | |

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| CARRIED FORWARD | NO TIME COLUMNS | SIGNATURE | LICENSE NUMBER |
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MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | NOTE | INSTALLATIONS, INSPECTIONS, REPAIRS, ADJUSTMENTS, MODIFICATIONS. |
|------|----------|------|---------------------|------|------|--|
| | HRS. | MIN. | HRS. | MIN. | | |

Whiskey Kilo Yankee, LLC

Date: 07-02-2021
 Aircraft: N597RA SN: 40,444
 Lycoming IO-360-M1A TACH: 3106.3 TSMOH: 686.5
 Changed engine oil and filter using Aeroshell 15W-50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell

Nicholas Bell 3383373 ATP

Whiskey Kilo Yankee, LLC

Date: 10-17-2021
 Aircraft: N597RA SN: 40,444
 Lycoming IO-360-M1A TACH: 3156.1 TSMOH: 736.3
 Changed engine oil and filter using Phillips Victory 15W-50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell

Nicholas Bell 3383373 ATP



Going your way every day since 1957
 Aircraft Logbook Entry

Date: 11-5-2021
 Aircraft: N597RA SN: 40,444
 AFTT: 3157.7 Tach: 3157.7

Annual inspection completed this date. Comps as follows: 1=78/80, 2=76/80, 3=70/80, 4=79/80. AD's checked thru CD2021-22. I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

Nicholas Bell

A&P3296474/A

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE FBO - MAINTENANCE
 Don Davis Aviation, Inc - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6000 - Fax 270 826 6040

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| TOTAL SINCE MFG. | | | | |

MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS.
 ENTRIES: DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

Whiskey Kilo Yankee, LLC

Date: 1-5-2022
 Aircraft: N597RA SN: 40,444
 Lycoming IO-360-M1A TACH: 3204.1 TSMOH: 784.3
 Changed engine oil and filter using Phillips Victory 20W-50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell

Nicholas Bell 3383373 ATP



Going your way every day since 1957
 Aircraft Logbook Entry

Date: 4-7-2022
 TSMOH: 829.3

Timed left magneto to engine. Operational check good.

Nicholas Bell

A&P3296474/A

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE FBO - MAINTENANCE
 Don Davis Aviation, Inc - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6000 - Fax 270 826 6040

Whiskey Kilo Yankee, LLC

Date: 6-10-2022
 Aircraft: N597RA SN: 40,444
 Lycoming IO-360-M1A TACH: 3249.1 TSMOH: 829.3
 Changed engine oil and filter using Phillips Victory 20W-50 oil and AA48110-2 filter. Runup and leak test good.

Nicholas Bell

Nicholas Bell 3383373 ATP

MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.

ENGINE SERVICE AND

MAINTENANCE RECORD

| DATE | TIME RUN | | TIME SINCE OVERHAUL | | NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE INSTALLATIONS, INSPECTIONS, | SIGNATURE | LICENCE NUMBER |
|--|----------|------|---------------------|------|---|-----------|----------------|
| | HRS. | MIN. | HRS. | MIN. | | | |
| BROUGHT FORWARD - | | | | | | | |
| Whiskey Kilo Yankee, LLC Date: 11-13-2022 Aircraft: N597RA SN: 40444 Lycoming IO-360-M1A TACH: 3293.4 TSMOH: 873.6 Changed engine oil and filter using Phillips Victory 20W-50 oil and AA48110-2 filter. Runup and leak test good. | | | | | | | |
|  Nicholas Bell 3383373 ATP | | | | | | | |



Date 12-12-2022 Aircraft: N597RA SN: 40444
 TSMOH: 874.5 TFAF: 3294.3 Tach: 3294.3

Annual inspection completed this date. Comps as follows: 1=78.80, 2=77.80, 3=78.80, 4=78.80. AD's checked thru CDD2022-25. I certify that this aircraft has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition.

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE FBO - MAINTENANCE
 A&P32964741A

Don Davis Aviation, Inc - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6090 - Fax 270 826 6040

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MAXIMUM HOURS BETWEEN OVERHAULS _____ HOURS.