

**Diamond  
DA-40-180**

**N541DS**

**Technical Logs**

**Section 3: Engine**

# **AIRCRAFT TECHNICAL LOGS**



**Section 3. ENGINE**

ENGINE LOG

1. Make TEXTRON LYCOMING.
2. Model IO-360-MIA.
3. Specification 1E10
4. Manufacturer's Serial Number L-29410-51A.
5. Date of Manufacture \_\_\_\_\_
6. Aircraft Inspection Cycle \_\_\_\_\_

ENGINE CRANKSHAFT  
SERIAL # V537918689  
Per LYCOMING 03/15/06

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →			7	2	Hours Brought Forward
August 21/01					<p><b>Diamond</b></p> <p>Date: 21 August, 2001 S/N: 40041 Reg: N541DS WO#: RO-01-089 Hobbs: 7.2 Engine S/N: L-29410-51A Eng TTSN: 7.2</p> <p>Engine de-preservation carried out per de-preservation check sheet VA-P-09-05. Ground run-up of engine performed. Found to be satisfactory.</p> <p>The following S/B and S/I have been carried out as applicable: DAI SI 40-002 / Lycoming Mandatory S/B 548 - Engine Driven Fuel Pump replacement - N/A by S/N.</p> <p>The maintenance described above has been performed in accordance with the applicable standards of airworthiness.</p> <p>DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL #161-93</p> <p>Signature <u><i>Deval Ahmed</i></u> Lic or Stamp <u></u></p>
August 23/01			7	2	<p><b>Diamond</b></p> <p>Date: August 23, 2001 S/N: 40041 Reg. #: N541DS WO# RO-01-089 Engine S/N: L-29410-51A TTSN: 7.2 Hobbs: 7.2</p> <p>Magnetos replaced with new 2001 Manufactured units per Unison Industries Instructions and SLI-96. LH Mag Model 4771 removed S/N: 00070968 New LH Mag installed Model 4771 S/N: 01061069 RH Mag Model 4770 removed S/N: 00070771 New RH Mag Model 4770 installed S/N: 01060962 Engine to Mag timing adjusted. Ground run up of aircraft performed and found to be satisfactory.</p> <p>The maintenance described above has been performed in accordance with the applicable standards of airworthiness.</p> <p>DIAMOND AIRCRAFT INDUSTRIES D.O.T. APPROVAL # 161-93</p> <p>Signature <u><i>Deval Ahmed</i></u> Lic. Or Stamp <u></u></p>
					CARRIED FORWARD
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					

# MAINTENANCE RECORD

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

SIGNATURE

LICENCE NUMBER

*From Austrian Logs.*

*[Signature]*

DA  
RO6

*[Faint handwritten text]*

*[Faint handwritten text]*

*[Faint handwritten text]*

*[Faint handwritten text]*

*[Faint handwritten text]*

*[Faint handwritten text]*

*[Faint handwritten text]*

*[Faint handwritten text]*

*[Faint handwritten text]*

*[Faint handwritten text]*

*[Faint handwritten text]*

*[Faint handwritten text]*

*[Faint handwritten text]*

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.



# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
	BROUGHT FORWARD				
2-4-04			18.6		Replaced all valve cover gaskets Drained engine oil Insp. sump screen Replaced oil filter CH48110 Serviced w/8qts Aerashell 80M Cleaned & Gapped Spark plugs Replaced plug gaskets Run-up / leak check / Static RPM satisfactory AD's checked to date I certify that this engine has been in IAW a 100hr. insp. and was found to be in an airworthy condition <div style="text-align: right; margin-top: 10px;">                          Alan E. Schuler AIP 2641588                     </div>
2-4-04			18.6		CKED, A.D.S TO DATE. SEE ABOVE ENTRY FOR COMPLIANCE. C/W AN ANNUAL INSP. ITEMS IAW, FAA 43 AP, 'D' I CERTIFY THAT THE ENGINE HAS BEEN INSP. IAW, AN ANNUAL INSP. & WAS DETERMINED TO BE IN AIRWORTHY CONDITION <div style="text-align: right; margin-top: 10px;">                          Alan E. Schuler IA 13942312                     </div>
CARRIED FORWARD					

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	→				
6/5/04			40	20	OIL CHANGED & FILTER CHECKED, NO METAL FOUND <i>PL</i>

Date: 11/13/2004 Aircraft: N541DS Type: DIAMOND DA 40 S/N: 40041  
 Hobbs: 82.9, Total Time: 82.9  
 LYCO IO-360-M1A S/N: L-29410-51A Time: 82.9

CHANGED OIL AND FILTER SERVICED WITH 8 QUARTS AEROSHELL 15W50 AND A CH48110-1 FILTER.

DATE NOV 13 2004  
 SIGNED *PL*  
 CERT NO. 452960310

HENLEY'S TRAINING ACADEMY, INC.  
 15841 ADDISON ROAD  
 ADDISON, TEXAS 75001

Tomlinson Aviation 2230 Airport Drive Gainesville, TX 76240 940 612-2044

Make: Lycoming Model: IO-360-M1A S/N: L-29410-51A  
 3/8/2005 Tach & TSN 130.8 This engine inspected within the scope and depth of FAR 43 Appendix D. The following maintenance was performed: Compression as follows; #1 76/80 #2 75/80 #3 75/80 #4 76/80. Cleaned, gapped and rotated spark plugs. Removed injector nozzles, cleaned, inspected and reinstalled. Drained oil and removed oil filter. Cut filter open and inspected. No metal found. Installed new CH48110-1 oil filter and serviced engine with 8 qts. Aeroshell 15W-50. Ran and leaked checked good.

*Aaron Curry*  
 Aaron Curry  
 A&P 2758000

(05AM 2006)					REMOVE LASAR CONTROL & SEND TO UNISON FOR CK. REINSTALLED LASAR CONTROLLER.
HOBBS	315.1				REMOVE & REPLACE LH MAGNETO PN 4771 SN 05082904 TIME LH MAGNETO TO ENG & CK RH MAG TIMING. ENG WRN RON, OK.
					CARRIED FORWARD <i>William P. Helms</i>
TOTAL THIS PAGE					WILLIAM P. HELMS 1A431942176
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					



# MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS, MODIFICATIONS

ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE NUMBER


**AERO RESTORATIONS, INC.**  
Addison Airport, Addison, Texas 75001

**N541DS**

Diamond DA40  
SN: 041

### Engine Log Entry

October 14, 2005      Hour Meter: 260.4      Removed spark plugs. Cleaned, re-gapped, reinstalled and torqued to manufacturer's specifications. Drained oil. C/W oil analysis. Removed, cut and inspected oil filter; no metal found. Installed new CH48110-1 filter and saftied. Serviced engine with 8qts Aeroshell w100 oil. Removed engine driven fuel pump and replaced with new pump p/n LW15473, date code 2403, IAW Lycoming Direct Drive Overhaul Manual and Lycoming Service Bulletin #548A. Ground ran engine. Leak check good.

I CERTIFY THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH FAR 91.409 AND/OR REPAIRED IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE ONLY FOR THE WORK PERFORMED ABOVE. FOR FURTHER INFORMATION SEE WORK ORDER #05-2403 ON FILE AT THIS STATION. DATED 10/14/2005. INSPECTED BY  FOR AERO RESTORATIONS, INC. CRS #XR0R795Y, ADDISON, TEXAS 75001.

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

1. Approving national aviation authority/country **Transport Canada** 2. **Authorization Release Certificate** 3. Form tracking No. **S10533350**

4. Approved organization name and address  
**Diamond Aircraft Industries Inc.**  
**1560 Crumlin Sideroad**  
**London, Ontario N5V 1S2**

5. Work order/contract/invoice  
**TCCA 24-0078**

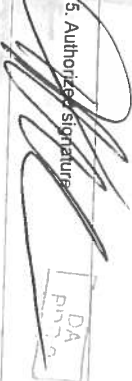
6. Item 7. Description 8. Part No. 9. Eligibility \* 10. Qty. 11. Serial/batch No. 12. Status/work

1	Pneumatic Damper, No Vent 92042400	200-1-425-WG18-400N		1	RC0505591,	Manufactured
---	------------------------------------	---------------------	--	---	------------	--------------

13. Remarks

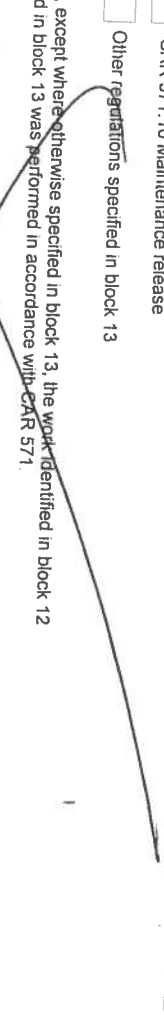
14. Certifies that the items identified above were manufactured in conformity to:

Approved design data and are in condition for safe operation  
 Non approved design data specified in block 13

15. Authorized signature  **DA P1779**

16. Certificate/Approval ref. No. **/161-93**

19.  CAR 571.10 Maintenance release  
 Other regulations specified in block 13

20. Authorized signature 

21. Certificate/Approval ref. No.

17. Name **Billingsham**

18. Date (dd/mm/yyyy) **15/Sep/2005**

22. Name

23. Date (dd/mm/yyyy)

User/Installer Responsibilities

1 This document does not constitute authority to install the part.  
 2 Where the installer works in accordance with the national regulations of an airworthiness authority other than the authority specified in Block 1, the installer must ensure that his/her airworthiness authority accepts products or maintenance from the airworthiness authority specified in Block 1.  
 3 Statements 14 and 19 do not constitute installation certification. In all cases the aircraft technical record must contain an installation certification, issue accordance with the national regulations of the state of registry, before the aircraft may be flown.  
 12/09/2003 \*Installer must cross-check eligibility with approved data

# MAINTENANCE RECORD

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

SIGNATURE

LICENCE  
NUMBER

## WARNING

- When installing drive gear or driver onto magneto, torque nut provided to 120 to 320 inch lbs.
- Use only the installation hardware provided.
- Secure nut with appropriate cotter pin.

## FAA-PMA Approved

This magneto was manufactured from all new components in accordance with 14 CFR Part 21.303h and is airworthy. This magneto is FAA-PMA approved for applications listed in Unison Industries' L-1318 Document in the F-1100 Master Service Manual. For LASAR® Magnetos, see L-1500 Manual.

Enter magneto model, serial number, and date of installation, and attach this tag to engine logbook.

Magneto Model No. 4771  
 Magneto Serial No. 05082904  
 Date of Installation 6 JAN 2006  
 L-1543-A

**AERO RESTORATIONS, INC.**  
 Addison Airport, Addison, Texas 75001

**N541DS**

Diamond DA40-180  
 SN: 40041

### Engine Log Entry

March 15, 2006      Hour Meter: 333.5      Engine TT: 333.5      ETSN: 333.5  
 CW 100hr inspection IAW Diamond Aircraft DA40-180 Series Maintenance Checklist from Chapter 5-20-00. Performed cylinder compression test as follows: #1 78/80, #2 79/80, #3 78/80, #4 78/80. Drained oil. Removed, cut and inspected filter; no metal found. Installed new CH48110-1 filter and saftied. Serviced engine with 8qts Aeroshell w100 oil. CW oil analysis. Cleaned and regapped spark plugs. Cleaned fuel injectors. Researched compliance of AD 2005-19-11 (crankshaft failure); AD does not apply due to engine model. CW AD 2002-26-01 by inspection of fuel injector lines IAW Lycoming Mandatory Service Bulletin #342E; no defects noted at this time. Next inspection due in 100hrs - Hour Meter: 433.5 or at next annual

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW A 100HR INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION. JOSEPH K. SHOBE A&P463119060 

**AERO RESTORATIONS, INC.**  
 Addison Airport, Addison, Texas 75001

**N541DS**

Diamond DA40  
 SN: 40041

### Engine Log Entry

March 15, 2006      Hour Meter: 333.5      Engine TT: 333.5      ETSN: 333.5  
 CW an annual inspection IAW Diamond Aircraft DA40 Series Maintenance Manual Inspection Guide. I HAVE INSPECTED THIS ENGINE IAW AN ANNUAL INSPECTION AND DETERMINED IT TO BE IN AIRWORTHY CONDITION.



MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

# MAINTENANCE RECORD

REPAIRS, ADJUSTMENTS,  
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNL



MODERN AERO, INC.  
14801 PIONEER  
EDEN PRAIRIE, MN  
952-941-1122

FAA APPROVED REPAIR STATION MZER198L



## Tanis Aircraft Products

P. O. Box 117  
GLENWOOD, MN 56334  
800-443-2136  
www.tanisaircraft.com



ITEM: Engine Preheater  
P/N: TAS100-01 & TAS100-02 W/OPT. TAS301 ELEMENT  
W/OPT. TAS104 ELEMENTS

S/N: 39671

Eligible on: See Reverse.

For complete application and interchange listings see  
Tanis Aircraft master sheet.

N541DS

DATE: 08/15/2007

HOBBS: 400.2

### ENGINE

DRAINED OIL AND ADDED 8QTS 15W50 AEROSHELL OIL.  
TOOK OIL SAMPLE AND REPLACED OIL FILTER P/N CH48110-1. NO  
METAL FOUND IN ELEMENT. RUN ENGINE AND NO LEAKS FOUND.  
INSTALLED THE TAS100 ENGINE PREHEATER SYSTEM S/N 39671 IN  
ACCORDANCE WITH TANIS AIRCRAFT SERVICES INSTRUCTIONS  
AND DRAWING # 100A. MODEL: AERO W/O # 71122.

KEN MARTINSON

A/C Tail #: N541DS

A/C S/N: 40.041

Tach Time: 373.8

ENGINE MODEL: IO-360-M1A S/N: L-29410-51A

DRAINED OIL AND TOOK OIL SAMPLE. REMOVED OIL FILTER AND CUT OPEN FOR INSPECTION, NO FAULTS FOUND.  
INSTALLED 8QTS OF AEROSHELL 15W-50 AND NEW CH48110-1 OIL FILTER. RUN UP AND LEAK CHECK FOUND TO BE  
SATISFACTORY.

AARON MURPHY

1/22/2007

Modern Aero, Inc. FAA CRS MZER198L

Work Order #: 34844

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	

**ENGINE:** N541DS      **DATE:** 5/14/07      **TACH:** 394.1  
**MODEL:** IO-360-M1A      **S/N:** L-29410-51A      **HOBBS:** 489.1

COMPLETED ANNUAL INSPECTION ON THIS DATE. DRAINED OIL. TOOK OIL SAMPLE. REMOVED AND CUT OPEN OIL FILTER. REMOVED AND INSTALLED SUCTION SCREEN. NO FAULTS FOUND. INSTALLED NEW CH48110-1 OIL FILTER. SERVICED WITH 8 QTS. AEROSHELL 15W50. COMPRESSION TEST AS FOLLOWS: #1 78/80, #2 74/80 #3 74/80, #4 74/80. REPLACED ALL INTAKE PIPE O-RINGS AND GASKETS. PERFORMED A 400 HR VISUAL INSPECTION OF THE VALVES PER DIAMOND CHECKLIST AND MM. CLEANED FUEL INLET FILTER. COMPLIED WITH MSB 40-33 BY INSPECTING EXHAUST SYSTEM. NO FAULTS FOUND. COMPLIED WITH AD 2002-26-01 ( FUEL INJECTION LINES) PER SB 342E. NO DEFECTS NOTED. AD DUE AGAIN AT NEXT ANNUAL, 100 HR. INSPECTION, OR FUEL LINE MAINTENANCE. RUN-UP OPERATIONAL AND LEAK CHECKS WERE FOUND TO BE SATISFACTORY. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION. REFERENCE MODERN AERO W/O# 35034.

**AARON MURPHY** *(Signature)*  
5/14/2007    Modern Aero, Inc. FAA CRS MZER198L    Work Order #: 35034    A/F TT: 394.1

The Aircraft, Airframe Engine, Propeller, Appliance, Radio or Instrument was repaired and inspected in accordance with current regulations of the Federal Aviation Administration and with respect to the work performed is approved for return to service by Modern Aero, Inc. FAA CRS #MZER198L

*(Signature)*      39348  
 Authorized By      Work Order

Date: 8/16/07    N# 54105    Acft Hrs: 453.2

**Diamond DA40**      **N541DS**      **Hobbs: 558.3**  
**S/N: 40041**      **08-16-07**  
**Engine M/N: IO-360-M1A**      **S/N: L-29410-51A**

**Completed the following Maintenance:**

1. Drained oil and obtained a sample. Removed the old filter and cut open the filter, found no metal. Installed a new oil filter (P/N: CH48110-1) and serviced the engine with 8 quarts of Aeroshell 15W50. Run-up and leak check were satisfactory.

Modern Aero, Inc.  
 14801 Pioneer Trail  
 Eden Prairie, MN 55347  
**WO# 35348 Date: 08-16-07 CRS MZER198L**  
 ----- End -----

CARRIED FORWARD

TOTAL THIS PAGE							
TOTAL FROM PREVIOUS SUMMARY							
TOTAL SINCE MFG.							

# MAINTENANCE RECORD

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

SIGNATURE

LICENCE  
NUMBER

ENGINE MODEL:  
ENGINE S/N: L-29410-51A  
REG. NO: 541DS  
WORK ORDER:  
1835-02-2008



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

DATE: 2/25/2008  
A/C TSN  
ENG TT  
HOBS: 629.1

**Engine Entries**

REPLACED ALL SPARK PLUGS W/ NEW REM38E. RAN ENGINE OPS CHECK GOOD.

This aircraft/engine is approved for return to service with reference to work performed on this W/O on this date. THIS RELEASE IN NO WAY CERTIFIES FUTURE AIRWORTHINESS.

DATE: 2/25/2008

SIGNED:

Work Order: 1835-02-2008

Christopher Barcenas, A&P: 2738632

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:  
IO-360-M1A  
ENGINE S/N L-29410-51A  
REG. NO: 541DS  
WORK ORDER:  
2071-05-2008



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

DATE: 5/28/2008  
A/C TSN: 544.7  
ENG TT: 544.7  
TACH: 544.7

**Engine Entries**

C/W MSB40-033 EXHAUST SYSTEM INSPECTION. INSTALLED NEW MUFFLER BRACKET. PRESSURE CHECKED EXHAUST SYSTEM. NO LEAKS NOTED.... CHECKED LASAR MAG TIMING... C/W A.D. 2002-26-01 LYCOMING FUEL INJECTION LINE AND CLAMP INSPECTION IAW LYCOMING SB 342E. ADJUSTED CLAMP POSITIONS. NO OTHER DEFECTS NOTED. NEXT DUE 100 HOURS FROM THIS TIME.... C/W ANNUAL INSPECTION ON THIS ENGINE I.A.W WITH FAR 43 APENDIX d AND DA40 M/M CHAPTER 5 INSPECTION GUIDE. SERVICED ENGINE WITH 8 QTS 20W50 PHILLIPS XC AND NEW FILTER CH48110-1. ENGINE WAS GROUND RUN AND LEAK CHECKED OK PERFORMED COMPRESSION CHECK 76-75-72-75 /80

A&P 2738632  
MECH CHRISTOPHER BARCENAS

SIGN:

Maintenance Release

I certify this engine has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition on this date. Aircraft is approved for return to service on this date. THIS RELEASE IN NO WAY CERTIFIES FUTURE AIRWORTHINESS

DATE: 5/28/2008

SIGNED:

Work Order: 2071-05-2008

Jack Wesley Dale, A: 456967085

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:  
IO-360-M1A  
ENGINE S/N: L-29410-51A  
REG. NO: 541DS  
WORK ORDER:  
2432-10-2008



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

DATE: 10/10/2008  
A/C TSN: 592.9  
ENG TT: 592.9  
TACH: 592.9

**Engine Entries**

CHANGED OIL AND FILTER. SERVICED WITH 8 QTS PHILLIPS 20W-50 XC. INSTALLED NEW OIL FILTER. INSPECTED OLD OIL FILTER AND SUMP SCREEN FOR CONTAMINATION. NONE FOUND. TEST RAN ENGINE. NO OIL LEAKS NOTED.

THIS ENGINE WAS GROUND RUN AND LEAK CHECKED OK. APPROVED FOR RETURN TO SERVICE ON THIS DATE. THIS RELEASE IN NO WAY CERTIFIES FUTURE AIRWORTHINESS

DATE: 10/10/2008

SIGNED:

Work Order: 2432-10-2008

JON RANNEY, A&P: 2773237

Printed by EBis 3 (datcomedia.com)

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

ENGINE MODEL:  
IO-360-M1A  
ENGINE S/N: L-29410-51A  
REG. NO: 541DS  
WORK ORDER:  
2772-02-2009



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

DATE: 2/27/2009  
A/C TSN: 667.1  
ENG TT: 667.1  
TACH: 667.1

**Engine Entries**

CHANGED OIL AND FILTER. SERVICED WITH 8 QTS. 20W50 X/C AND NEW CH48110-1 FILTER. OIL FILTER WAS CUT AND INSPECTED FOR CONTAMINATION. ENGINE WAS GROUND RUN AND LEAK CHECKED OK.... REPLACED BATTERY COOLING DUCT WITH NEW.

THIS ENGINE WAS GROUND RUN AND LEAK CHECKED OK. APPROVED FOR RETURN TO SERVICE ON THIS DATE. THIS RELEASE IN NO WAY CERTIFIES FUTURE AIRWORTHINESS

DATE: 2/27/2009      SIGNED:      Work Order: 2772-02-2009  
Emmanuel Viciedo, A&P. 592157851      Printed by EBis 3 (datcomedia.com)

ENGINE MODEL:  
IO-360-M1A  
ENGINE S/N: L-29410-51A  
REG. NO: 541DS  
WORK ORDER:  
2993-05-2009



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

DATE: 6/3/2009  
A/C TSN: 693.1  
ENG TT: 693.1  
TACH: 693.1

**Engine Entries**

REPLACED ENGINE VALVE COVER GASKETS WITH NEW AS REQUIRED.... C/W LYCOMING SB 583 & 584 ON LEFT MAGNETO BY REPLACEMENT OF BRUSH BLOCK WITH NEW P/N\_K3822 DATED 12/18/2008 TERMINATING SB AS REQUIRED. OPS AND LEAK CHECKED GOOD.... C/W 500 HR MAGNETO INSPECTION ON LEFT AND RIGHT MAGNETOS. DETERMINED RIGHT MAGNETO TO BE UN AIRWORTHY AND REPLACED WITH NEW S/N\_01061981, M/N\_4770. TIMED MAGNETOS TO ENGINE IAW T-300B SYNCHROLASAR OPS MANUAL.... C/W AD 2008-14-07 LYCOMING FUEL INJECTION LINE AND CLAMP INSPECTION IAW LYCOMING SB 342E. NO DEFECTS NOTED. NEXT DUE IN 100 HRS.... C/W ANNUAL INSPECTION ON THIS ENGINE I.A.W WITH FAR 43 APPENDIX d AND DA40 M/M CHAPTER 5 INSPECTION GUIDE. SERVICED ENGINE WITH 8 QTS AEROSHELL 15W50 AND NEW FILTER CH48110-1. ENGINE WAS GROUND RUN AND LEAK CHECKED OK PERFORMED COMPRESSION CHECK 78-75-76-78 /80.

A&P: 592465919  
MECH: SAM TAVAREZ  
SIGN:

Maintenance Release

I certify this engine has been inspected in accordance with an ANNUAL INSPECTION and found to be in airworthy condition on this date. Aircraft is approved for return to service on this date. THIS RELEASE IN NO WAY CERTIFIES FUTURE AIRWORTHINESS

DATE: 6/3/2009      SIGNED:      Work Order: 2993-05-2009  
JONATHAN RANNEY, IA: 2773237      Printed by EBis 3 (datcomedia.com)

CARRIED FORWARD

TOTAL THIS PAGE

TOTAL FROM PREVIOUS SUMMARY


TOTAL SINCE MFG.

# MAINTENANCE RECORD

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

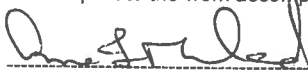
SIGNATURE

LICENCE  
 NUMBER


**ASSC**   
**Aviation Specialty Services Corp.**  
 Tel:954-816-7399 Fax:954-792-2516 afmohamed@hotmail.com  
10-07-09 N541DA DIAMOND DA-40 S/N: 40-041 TACH:0753.6 H.M: 0913.2  
IO-360-M1A S/N: L-29410-51A TTSN: 0753.6

**ENGINE:**

Change oil and filter. Take oil sample. Cut open oil filter element and inspected. No metallic foreign material found. Cleaned suction oil screen. Filled with 8 Qts of AeroShell 15W-50 oil and new filter element P/n: CH48110-1. Washed engine compartment. Ground run and leak tested O.K. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.



Ameer F. Mohamed  
 AP3270645

**ASSC**   
**Aviation Specialty Services Corp.**  
 Tel:954-816-7399 Fax:954-792-2516 afmohamed@hotmail.com  
03-11-2010 N541DS Diamond DA-40 S/N: 40-041 TACH: 820.6 HM: 991.0  
IO-360-MIA S/N: L-29410-51A

**Engine:**

Changed oil Phillips 8 qts XC 20W50 and oil filter CH48110-1. Cleaned suction oil screen. Oil sample taken kit P/n: GA001. Cleaned engine & cowling. Ground run no leaks noted. I certify, with respect to the work accomplished above, that this aircraft is approved for return to service.




Ameer F Mohamed  
 A&P 3270645

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.



# ENGINE SERVICE AND

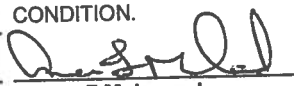
DATE	TIME RUN		TIME SINCE OVERHAUL		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE INSTALLATIONS, INSPECTIONS,
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD <span style="font-size: 2em;">→</span>					



**ASSC**  
**Aviation Specialty Services Corp.**  
 Tel: 954-816-7399 Fax: 954-792-2516 afmohamed@hotmail.com

07-01-2010 N541DS DIAMOND DA-40 S/N: 40-041 ACTT: 859.1 TACH: 859.1 H.M: 1036.7  
Lycoming IO-360-N1A S/N: L-29410-51A TTSN: 859.1

**ENGINE:**  
 AD's researched through FAA Issue 2010-13. AD 08-14-07 fuel injection lines & clamps complied with IAW SB342E. AD 09-26-12 Titan cylinders N/A by Lycoming cylinders in use. Oil changed 8 qts Phillips XC 20W50. P/n: CH48110-1 oil filter replaced, suction screen cleaned, new crush washer AN900-16. Oil sample taken kit GA001. Cleaned, gapped, tested & rotated all spark plugs. Compression check all 79/80. Cleaned screen at fuel servo. Replaced all valve cover gaskets with new P/n: 75906-SL silicone gaskets. Washed engine and cowings. Ground run accomplished no leaks & all functional checks satisfactory. I certify this ENGINE has been inspected in accordance with a 100 hour/ANNUAL INSPECTION within the scope & detail of FAR 43 App D and Diamond DA-40 series M.M. Section 05-20-00 inspection outline and was determined to be in AIRWORTHY CONDITION.

  
**Ameer F Mohamed**  
**A&P 3270645 IA**

The H Company  
 Houston Executive Airport  
 1900 Cardiff Rd.  
 Brookshire, TX 77423

N541DS Diamond DA40 S/N 40.041 Hobbs 1194.1  
 Lycoming IO-360-M1A S/N L-29410-51A

Completed 100 hr/annual inspection IAW Diamond DA 40 maintenance manual , Lycoming IO-360 service manual and FAR 43 App D. Compression check: #1 76/80, #2 72/80, #3 77/80, #4 78/80. Drained oil, removed filter, cut filter (no contaminants found), replaced filter P/N CH48110, serviced with 8 qts Aeroshell W100. Removed, cleaned, inspected, gapped, tested, rotated, and reinstalled spark plugs. Replaced heater hose. Run up, leak and ops check OK. This engine has been inspected IAW 100 hr/annual inspection criteria and has been found airworthy.

  
**Scott J. Cappiano** AP 457571943 8/1/2011  
 CARRIED FORWARD

TOTAL THIS PAGE	
TOTAL FROM PREVIOUS SUMMARY	
TOTAL SINCE MFG.	

# MAINTENANCE RECORD

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

SIGNATURE

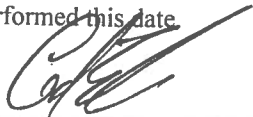
LICENCE  
NUMBER

3-5-2012 N-541DS Diamond DA-40 S/N# 40041  
 Lycoming IO-360-M1A S/N# L-29410-51A  
 Tach# 1089.0 Hobbs# 1304.1

Removed oil filter and opened filter to check for contaminants,  
 none noted. Installed new CH48110-1 filter and safty wired.  
 Removed all spark plugs from engine, cleaned, gapped, tested  
 and rotated plugs. Reinstalled spark plugs with all new AN4027-1  
 spark plug gaskets.

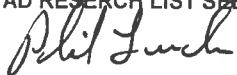
I certify this engine has been repaired/inspected in accordance  
 with current FAA regulations and approved maintenance  
 manual. This engine is approved for return to service with  
 respect to work performed this date

Gregory J. Evans  
 A&P/IA# 3023363



03/20/2012 TACH 1089.8 TTE 1089.8 COMPLETED ANNUAL INSPECTION THIS DAY. CHANGED  
 ENGINE OIL 8 QUARTS PHILLIPS X/C 20/50 AND ONE PINT CAMGAURD. REMOVED AND CLEANED  
 ENGINE AIR FILTER RE-OILED AIR FILTER. PRESSURE CHECK EXHAUST SYSTEM AND CHECKED  
 FOR HALF CLAMP CLEARANCES AS PER MSB 40-007/4 & MSB 40-033 NEXT DUE @ 1139.8.  
 COMPRESSION CHECK 1) 77 3) 67 2) 75 4) 75. ACCOMPLISHED AD 2008-14-07 FUEL LINE  
 INSPECTION. MSB 40-007/4 & MSB 40-033 EXHAUST INSPECTION. ACCOMPLISHED NEXT DUE @  
 1139.8. COMPILED AD RESERCH LIST SEE LIST FOR FURTHER DETAILS.

A&P IA 3410335  
 PHILLIP LEEDER



3/24/2012 Tach 1090.06 Replace Left mag 4771 with  
 Pn# 4373. Air 3410335 Phil Leeder

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					

Shearer Aviation Services, Inc.  
LOG ID# 2537 21-June-2012  
N541DS S/N 40041 DIAMOND DA 40

N541DS ENGINE  
JUNE 21, 2012 TACH 1111.9  
REPLACED RIGHT MAGNETO WITH NEW SLICK MAG MODEL 4370 SN 12050506. TIMED MAG AND INSTALLED MAG  
NEW BASE GASKET. RAN AND CHECKED OPERATION AND FOR LEAKS. END.

TACH 1111.9 **WARNING** RH MAG

- When installing drive gear or driver onto magneto, torque nut provided to 120 to 180 inch lbs.
- Use only the installation hardware provided.
- Secure nut with appropriate cotter pin.

N541DS

## FAA-PMA Approved

This magneto was manufactured from all new components in accordance with 14 CFR Part 21.303h and is airworthy. This magneto is FAA-PMA approved for applications listed in the Champion/Slick L-1318 Document in the F-1100 Master Service Manual. For LASAR<sup>®</sup> Magnetos, see L-1500 Manual.

Enter magneto model, serial number, and date of installation, and attach this tag to engine logbook.

Magneto Model No. 4370  
Magneto Serial No. 12050506  
Date of Installation 6-21-2012

L-1543 March 30, 2009

CARRIED FORWARD

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

# MAINTENANCE RECORD

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

SIGNATURE

LICENCE  
NUMBER

Shearer Aviation Services, Inc.  
LOG ID# 2534 06-July-2012  
N541DS S/N 40041 DIAMOND DA 40

F

N541DS ENGINE  
JULY 6, 2012 TACH 1121.5

REINSTALLED ALTERNATOR BLAST DUCT AT ALTERNATOR. DRAINED OIL. TOOK OIL SAMPLE. CHANGED OIL FILTER. ADDED SEVEN QUARTS PHILLIPS 20 W 50XC OIL. WASHED ENGINE. RAN AND CHECKED OPEATION AND FOR LEAKS. END.

*Jay Shearer A&P 167380884*  
A&P 167380884 JAY SHEARER

Shearer Aviation Services, Inc.  
LOG ID# 2573 01-August-2012  
N541DS S/N 40041 DIAMOND da40

Pg

N541DS ENGINE  
AUGUST 1, 2012 TACH 114.64

DRAINED OIL. COMPRESSION CHECK #1 78. #2 79. #3 74. #4 76. TOOK OIL SAMPLE. CHANGED OIL FILTER. BORESCOPED CYLINDERS. CLEANED AND GAPPED LOWER SPARK PLUGS. INSPECTED EXHAUST SYSTEM. WASHED ENGINE. ADDED SEVEN QUARTS PHILLIPS 20W50 XC OIL. RAN AND CHECKED OPERATION AND FOR LEAKS. END.

*Jay Shearer A&P 167380884*  
A&P 167380884 JAY SHEARER

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD <span style="font-size: 2em;">→</span>					

Shearer Aviation Services, Inc. 398c S. RAMONA RD LEBANON PA 17042  
 LOG ID# 2660 12-November-2012  
 N541DS S/N 40041 ~~AERO SPORT~~ DA40  
*D JAYMOND*

N541DS ENGINE  
 NOVEMBER 12, 2012 TACH 1173.7

DRAINED OIL. TOOK OIL SAMPLE. CHANGED OIL FILTER. CLEANED OIL SUCTION SCREEN. CHANGED OIL FILTER.  
 ADDED SEVEN QUARTS AEROSHELL 15 W 50 OIL. WASHED ENGINE. BOROSKOPED CYLINDERS. RAN AND CHECKED  
 OPERATION AND FOR LEAKS. END.

*Jay Shearer BP167380884*  
 ACP 167380884 Jay Shearer


Shearer Aviation Services, Inc.  
 LOG ID# 2680 03-December-2012  
 N541DS S/N 40041 AERO SPORT DA40

N541DS ENGINE  
 DECEMBER 3, 2012 TACH 1178.1

CLEANED, GAPPED, AND ROTATED SPARK PLUGS. REMOVED #2 ROCKER COVER AND INSPECTED UNDER ROCKER COVER  
 AND EXHAUST VALVE AREA. REINSTALLED ROCKER COVER. RAN AND CHECKED OPERATION AND FOR LEAKS. END.

*Jay Shearer BP167380884*  
 ACP 167380884 JAY SHEARER


CARRIED FORWARD

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

# MAINTENANCE RECORD

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

SIGNATURE

LICENCE  
NUMBER

Shearer Aviation Services, Inc.  
LOG ID# 2793 20-March-2013  
N541DS S/N 40041 ~~AEROSPACE~~ DA40

Pg \_\_\_\_\_

N541DS ENGINE  
MARCH 20, 2013 TACH 1188.1 TOTAL TIME 1188.1

DRAINED OIL. TOOK OIL SAMPLE. COMPRESSION CHECK #1 76. #2 78. #3 65. #4 75. CHANGED OIL FILTER. CLEANED OIL SUCTION SCREEN. CLEANED, GAPPED AND ROTATED SPARK PLUGS. CHECKED TIMING. MEGGED IGNITION LEADS. CLEANED FUEL INJECTOR INLET SCREEN. REPLACED INDUCTION AIR FILTER WITH NEW FILTER. ADDED SEVEN QUARTS PHILLIPS 20W W 50XC OIL. PRESSURE CHECKED FUEL SYSTEM FOR LEAKS. CLEANED AND PAINTED CYLINDER BARRELS AS NEEDED. REPLACED ALL TEFLON PLUGS IN ENDS OF ROCKER SHAFTS. REPLACED #1 AND #2 INTAKE GASKETS AND PIPE "O" RINGS. SECURED ITEMS THROUGHOUT ENGINE COMPARTMENT. REPLACED ALL FOUR OIL RETURN LINE HOSES. REPLACED BOTH MAG BASE GASKETS AND RETIMED BOTH MAGS. WASHED ENGINE. REPLACED #1 AND #3 EXHAUST MANIFOLD GASKETS. CW AD 2009-02-03 BY INSPECTION AND INSTALLED NEW GASKET PN 2577258 AND MARKED NUT WITH "G" AND TORQUED AND RESAFETIED NUT. LEAK CHECKED OK. CW AD 2011-26-04 BY INSPECTION AND NO DEFECTS NOTED. RAN AND CHECKED OPERATION AND FOR LEAKS. END.

*Jim Seaver*  
167380889

MARCH 20, 2013 TACH 1188.1 TOTAL TIME 1188.1

I CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION. END.

*Jim Seaver* 167380889

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3, AIRWORTHINESS APPROVAL T			
4. Organization Name and Address: <b>PENN YAN AERO</b> 2499 Bath Road, Penn Yan, New York 14527, 315/536-2333		Repair Station# Y2GR396Y			
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity	11. Se
1	CYLINDER	IO-360-M1A-CYL	TBV by Installer	1	
13. Remarks: *Work performed in block 12 was done in *accordance with data approved by or *acceptable to the FAA. Details on file *under WO# in block 5.					
14. Certifies the items identified above were manufactured in conformity to:			19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service		
<input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.			Certifies that unless otherwise specified 12 and described in Block 13 was according of Federal Regulations, part 43 and in return for return to service.		
15. Authorized Signature:		16. Approval/Authorization No.:		20. Authorized Signature:	
17. Name (Typed or Printed)		18. Date (m/d/y):		22. Name: (Typed or Printed)	
				<i>Salvatore A. Sciallo</i> SAL SCIALLO	

1. Approving National Aviation Authority/Country: FAA/UNITED STATES

2. **AUTHORIZED RELEASE CERTIFICATE**  
 FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number: 13772

4. Organization Name and Address: **PENN VAN AERO**  
 2499 Bath Road, Penn Yan, New York 14527, 315/536-2333

Repair Station# Y2GR396Y

5. Work Order/Contract/Invoice Number: 37193 /

6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity	11. Serial/Batch No.	12. Status/Work:
1	CYLINDER	IO-360-M1A-CYL	TBV by Installer	1	N/A	Repaired

13. Remarks: \*Work performed in block 12 was done in accordance with data approved by or \*acceptable to the FAA. Details on file \*under WO# in block 5.

14. Certifies the items identified above were manufactured in conformity to:

Approved design data and are in condition for safe operation.

Non-approved design data specified in Block 13.

19.  14 CFR 43.9 Return to Service  Other regulation specified in Block 13

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature:	16. Approval/Authorization No.:	20. Authorized Signature:	21. Approval/Certificate No.:
17. Name (Typed or Printed)	18. Date (m/d/y):	22. Name: (Typed or Printed)	23. Date (m/d/y):
		SAL SCIALLO	Apr 11, 2013

**User/Installer Responsibilities**

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1, it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1. Statements in block 14 and 19 do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flown.

FAA Form 8130-3 (6-01)

\*Installer must cross-check eligibility with applicable technical data.

NSN: 0052-00-012-9005

NS410\$ 4-12-2013 TBW 1210.9 #3 CYLINDER

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD	→				

MAKE: Diamond  
MODEL: DA-40  
S/N: 40041  
REG. NO: 541DS  
WORK ORDER:  
5439-03-2013



**Premier Aircraft Service, Inc.**  
Repair Station No. 9PRR402B  
5540 NW 23rd Avenue Hanger 14  
Fort Lauderdale, FL 33309  
Phone (954) 334-2393

DATE: 3/26/2013  
A/C TSN: 1199.4  
TACH: 1199.4

**Airframe Entries**

(2) REMOVED DIAMOND STOCK EXHAUST SYSTEM ASSY AND INSTALLED POWERFLOW EXHAUST S/N 473 IAW STC# SA03281AT. UPDATED POH AND WT & BALANCE AS REQUIRED. SEE FORM 337 FOR DETAILS.

MAINTENANCE RELEASE: IN REFERENCE TO THE WORK PERFORMED, THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, AND / OR APPLIANCE WAS REPAIRED AND INSPECTED I.A.W. CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. ALL WORK WAS PERFORMED IAW CURRENT APPLICABLE AIRCRAFT, ENGINE, OR APPLIANCE MAINTENANCE MANUALS AND INSTRUCTIONS. PERTINENT DETAILS ARE ON FILE AT THIS REPAIR STATION OFFICE.

DATE: 3/26/2013

SIGNED:

*Richie Quiles*  
Richie Quiles  
Certified Repair Station No. 9PRR402B

Work Order: 5439-03-2013

Printed by EBis 3 (datcomedia.com)

See Previous Page

Shearer Aviation Services, Inc.  
LOG ID# 2910 08-July-2013  
N541DS S/N 40041 DIAMOND DA40

N541DS ENGINE  
JULY 8, 2013 TACH 1233.6

COMPRESSION CHECK #1 75. #2 76. #3 72. #4 78. REPLACED MISSING BAFFLE SCREW AT #1 CYLINDER. REPLACED ALL EIGHT SPARK PLUGS WITH NEW UREM38E SPARK PLUGS. RAN AND CHECKED OPERATION. END.

*Jay Shearer*  
A&P 167380884 Jay Shearer

TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		



# MAINTENANCE RECORD

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

SIGNATURE

LICENCE  
NUMBER

Shearer Aviation Services, Inc.  
LOG ID# 2937 24-July-2013  
N541DS S/N 40041 DIAMOND DA40

N541DS ENGINE  
JULY 24, 2013 TACH 1241.6

DRAINED OIL. TOOK OIL SAMPLE. CHANGED OIL FILTER. ADDED SEVEN QUARTS AEROSHELL 15W50 OIL.  
WASHED ENGINE. RAN AND CHECKED OPERATION AND FOR LEAKS.END.

*Jeffrey Schwanger* A&P 171487058  
A&P 171487058 Jeffrey Schwanger

Shearer Aviation Services, Inc.  
LOG ID# 2970 03-September-2013  
N541DS S/N 40041 DA40

Pg

N541DS ENGINE  
SEPTEMBER 3, 2013 TACH 1265.8

DRAINED OIL. TOOK OIL SAMPLE. COMPRESSION CHECK #1 78. #2 78. #3 79. #4 76. CHANGED OIL FILTER.  
ADDED SEVEN QUARTS AEROSHELL 15W50 OIL. WASHED ENGINE. RAN AND CHECKED OPERATION AND FOR LEAKS.END.

*Jeffrey Schwanger* A&P 171487058  
A&P 171487058 JEFFREY SCHWANGER

Shearer Aviation Services, Inc.  
LOG ID# 3147 01-March-2014  
N541DS S/N 40041 DA40

Pg

N541DS ENGINE  
MARCH 1, 2014 TACH 1300.5 TOTAL TIME 1300.5

DRAINED OIL. TOOK OIL SAMPLE. COMPRESSION CHECK #1 75. #2 80. #3 75. #4 79. CHANGED OIL FILTER.  
CLEANED OIL SUCTION SCREEN. CLEANED, GAPPED, AND ROTATED SPARK PLUGS. CHECKED TIMING. MEGGED  
IGNITION LEADS. CLEANED FUEL INJECTOR INLET SCREEN. SERVICED INDUCTION AIR FILTER. ADDED SEVEN  
QUARTS PHILLIPS 20W50 XC OIL. REPLACED ALL FOUR EXHAUST MANIFOLD GASKETS. PRESSURE CHECKED FUEL  
SYSTEM FOR LEAKS. WASHED ENGINE. CW AD 2011-26-04 BY INSPECTION AND NO DEFECTS NOTED. RAN AND  
CHECKED OPERATION AND FOR LEAKS. END.

*Jay Shearer* A&P 167380884  
MARCH 1, 2014 TACH 1300.5 TOTAL TIME 1300.5

I CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS  
DETERMINED TO BE IN AN AIRWORTHY CONDITION.END.

*Jay Shearer* A&P 167380884  
A&P 167380884 JAY SHEARER

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD →					

Shearer Aviation Services, Inc.  
 LOG ID# 3303 01-August-2014  
 N541DS S/N 40041 DA40

Pg

N541DS ENGINE  
 AUGUST 1, 2014 TACH 1364.3

DRAINED OIL. TOOK OIL SAMPLE. CHANGED OIL FILTER. COMPRESSION CHECK #1 79. #2 80. #3 79. #4 80.  
 BORESCOPED CYLINDERS. CLEANED, GAPPED, AND ROTATED SPARK PLUGS. REPLACED LOWER #4 SPARK PLUG. WASHED  
 ENGINE. RAN AND CHECKED OPERATION AND FOR LEAKS. END.

*Jay Shearer*  
 A&P 167380884 JAY SHEARER

## Leading Edge Aviation, Inc.

3879 Old Easton Rd, Doylestown, PA 18901  
 (215)340-0707 fax (215)340-9795

N541DS 10/16/2014 Tach: 1399.6

Changed oil and filter. Serviced with 8 quarts Aeroshell 15W-50 and CH48110-1 filter.  
 Inspected old filter. no contamination found. Leak check normal.

*Kurt Moffat*  
 Kurt Moffat A&P27331941A

TOTAL

TOTAL FROM PREVIOUS SUMMARY		
TOTAL SINCE MFG.		

# MAINTENANCE RECORD

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

WOLD AVIATION  
 2415 MILFORD SQUARE PIKE  
 QUAKERTOWN, PA. 18951

1-12-15 HOBBS 1761.1 N-541DS

REMOVED AND REPLACED OIL AND FILTER, ADDED 8 QTS AEROSHELL 15W50, LEAK CHECKED GOOD ON RUN UP. OIL SAMPLE SENT OUT. NO DEFECTS NOTED IN FILTER. COMPRESSIONS AS FOLLOWS #1 78/80 #2 78/80 #3 78/80 #4 78/80 CLEANED, INSPECT, REGAP AND TEST LOWER SPARK PLUGS, REINSTALLED AND TORQUED WITH NEW PLUG GASKETS, RECONNECTED LEAD WIRES. A&P254881340 *Allen H. Wold*

WOLD AVIATION  
 2415 MILFORD SQUARE PIKE  
 QUAKERTOWN, PA. 18951  
 215-536-9463

3-7-15 TACH 1433.8 TTSN 1433.8 N-541DS

COWLING REMOVED AND ENGINE THOROUGHLY INSPECTED. COMPRESSIONS AS FOLLOWS #1 78/80 #2 78/80 #3 78/80 #4 78/80 INSTALLED MISSING NUT AND HARDWARE ON STARTER MOUNT AND REPLACED TAILPIPE STRAP. LUBRICATED ALL CONTROLS. REMOVED SPARK PLUGS CLEAN, REGAP, INSPECT AND TEST, REINSTALLED WITH NEW M-674 GASKETS, TORQUED AND RECONNECT LEADS. CLEANED INDUCTION AIR FILTER. C/W POWER-FLO ICA'S BY INSPECTION AND LUBRICATION. C/W AD 11-26-04 EXTERNALLY MOUNTED FUEL INJECTOR FUEL LINES BY INSPECTION DUE NEXT ANNUAL OR WHEN MAINTENANCE IS PERFORMED ON SYSTEM. ALL AD'S CHECKED THRU THIS DATE. I CERTIFY THAT THIS ENGINE WAS INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY CONDITION. A&P254881340IA *Allen H. Wold*

WOLD AVIATION  
 2415 MILFORD SQUARE PIKE  
 QUAKERTOWN, PA. 18951

5-8-15 HOBBS 1802.8 N-541DS

REMOVED AND REPLACED OIL AND FILTER, ADDED 8 QTS AEROSHELL 15W50, LEAK CHECKED GOOD ON RUN UP. CLEAN, INSPECT, REGAPPED AND TEST SPARK PLUGS REPLACED LOWER #1 PLUG. A&P254881340 *Allen H. Wold*

WOLD AVIATION  
 2415 MILFORD SQUARE PIKE  
 QUAKERTOWN, PA. 18951

7-1-15 HOBBS 1833.7 N-541DS

REMOVED AND REPLACED OIL AND FILTER, ADDED 7 QTS. AEROSHELL 15W50. REPLACED SPARK PLUGS WITH FINE WIRE TEMPEST. LEAK AND OPS CHECKED GOOD ON RUN UP. SAMPLE TAKEN. A&P254881340 *Allen H. Wold*

WOLD AVIATION  
 2415 MILFORD SQUARE PIKE  
 QUAKERTOWN, PA. 18951

8-25-15 HOBBS 1870 N-541DS

REMOVED AND REPLACED OIL AND FILTER, ADDED 7 QTS AEROSHELL 15W50. LEAK CHECKED GOOD. *Allen H. Wold* A&P254881340

MAXIMUM HOURS BETWEEN OVERHAULS \_\_\_\_\_ HOURS.

# ENGINE SERVICE AND

DATE	TIME RUN		TIME SINCE OVERHAUL		INSTALLATIONS, INSPECTIONS, NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					WOLD AVIATION 2415 MILFORD SQUARE PIKE QUAKERTOWN, PA. 18951 10-26-15 HOBBS 1909.1 N-541DS REMOVED AND REPLACED OIL AND FILTER, ADDED 7 QTS AEROSHELL 15W50, LEAK CHECKED GOOD ON RUN UP. <i>Allen H. Wold</i> A&P254881340
					WOLD AVIATION 2415 MILFORD SQUARE PIKE QUAKERTOWN, PA. 18951 12-17-15 HOBBS 1929.9 N-541DS REMOVED AND REPLACED OIL AND FILTER, ADDED 7 QTS AEROSHELL 15W50. LEAK CHECKED GOOD. <i>Allen H. Wold</i> A&P254881340
- WOLD AVIATION - 2415 MILFORD SQUARE PIKE - QUAKERTOWN, PA. 18951 - 215-536-9463 - 3-25-16 TACH 1582.5 TTSN 1582.5 N-541DS - COWLING REMOVED AND ENGINE THOROUGHLY INSPECTED. COMPRESSIONS AS FOLLOWS - #1 78/80 #2 78/80 #3 78/80 #4 78/80 LUBRICATED ALL CONTROLS. REMOVED SPARK PLUGS - CLEAN, REGAP, INSPECT AND TEST, REINSTALLED WITH NEW M-674 GASKETS, TORQUED - AND RECONNECT LEADS. CLEANED INDUCTION FILTER. REMOVED AND REPLACED OIL - AND FILTER, ADDED 8 QTS AEROSHELL 15W50 CHECKED OIL SUCTION SCREEN, NO - DEFECTS NOTED. CW AD 15-19-07 EXTERNALLY MOUNTED FUEL INJECTOR FUEL LINES BY - INSPECTION DUE NEXT ANNUAL OR WHEN MAINTENANCE IS PERFORMED ON SYSTEM. ALL - AD'S CHECKED THRU THIS DATE. I CERTIFY THAT THIS ENGINE WAS INSPECTED IN - ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS FOUND TO BE IN AIRWORTHY - CONDITION. A&P254881340IA <i>Allen H. Wold</i>					
					CARRIED FORWARD
TOTAL THIS PAGE					
TOTAL FROM PREVIOUS SUMMARY					
TOTAL SINCE MFG.					