

# **AIRCRAFT TECHNICAL LOGS**

**Section 1. AIRFRAME**



**CALIBRATION CARD  
ALTIMETER**

P/N: 593490-3		C/N: A130	S/N: 463030
Standard Alt (Ft)	Alt Reading (Ft) @ Room Temp	Standard Alt (Ft)	Alt Reading (Ft) @ Room Temp
-1,000	-5	14,000	-45
0	+10	16,000	-25
500	+10	18,000	0
1,000	+10	20,000	+55
1,500	+10	22,000	
2,000	+10	25,000	
3,000	+10	30,000	
4,000	0	35,000	
6,000	-20	40,000	
8,000	-25	45,000	
10,000	-40	50,000	
12,000	-50		

Date: 9/12/11

Tested By: SH

Inspected By: MD



## AIRCRAFT

1. Nationality and Registration: C-GRWR
2. Manufacturer's designation: DA 40
3. Manufacturer's Serial Number: 40.1124
4. Type Approval or Specification Number: A47CE
5. Date of Manufacture: A-224
6. Aircraft Inspections cycle:



DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.



DIAMOND AIRCRAFT INDUSTRIES INC.  
D.O.T. APPROVED MANUFACTURER #161-93

Registration: C-GRWR  
AC Serial Number: 40.1124  
Engine Serial Number: L-35554-51E  
Prop Serial Number: NS496B  
Airframe Total Time: 5.3 hrs

- Total Time Airframe Brought forward from Flight Test Journey Log (DAI - Form Q-157) : 5.3 hrs

- Compass Swing Performed:
  - Date: Oct 20, 2011
  - Next Due: Oct, 2012

FOR	N	30	60	E	120	150
STEER	360	030	059	090	120	150
FOR	S	210	240	W	300	330
STEER	180	210	240	270	301	332

- Static Pressure system and Primary Altimeter (G1000) have been inspected and tested in accordance with CAR Standard 571, Appendix B and 14 CFR 91.411:
  - Test Date: Oct 14, 2011
  - Next Due: Oct, 2013

- Stand By Altimeter:
  - Factory Test Date: Sept 12, 2011
  - Next Due: Sept, 2013

- ATC Transponder & Altitude Reporting System(s) have been tested in Accordance with CAR Standard 571, Appendix F and 14 CFR 91.217: & 91.413:
  - Test Date: Oct 14, 2011
  - Next Due: Oct, 2013
  - Programmed Reg: C-GRWR
  - Hex Code: C073DA

- The ELT was tested and inspected in Accordance with CAR Standard 571, Appendix G and 14 CFR 91.207(d) :
  - Manufacturers Cert. date: 31/11
  - Installation Inspected: Oct 27, 2011
  - Battery due: Sept, 2018
  - Next ELT inspection due: Oct, 2012
  - ELT remote switch cell:
    - Due Date: Sept, 2016
  - ELT Programmed:
    - REG: C-GRWR
    - HEX: C073DA
    - Beacon ID: A78DF01CF680261

- Emergency Battery Pack : Replacement Due Date : Oct, 2013

- G1000 Installation:
  - Software Version :010-0321-22
  - Obstacle expiry date: Dec 15, 2011
  - Aviation expiry date: Nov 17, 2011
  - FliteCharts expiry date: Nov 17, 2011
  - SafeTaxi expiry date: Dec 15, 2011
  - GTX 33 Software Version: 6.00

~~DA~~  
~~Q 20~~  
Inspector

NOV 03 2011

date



# ENGINEERING RECORD

INSPECTION, REPAIRS & REPLACEMENT  
ENTRIES. DRAW A DIAGONAL LINE THROUGH ANY UNUSED LINES IN DATE AND TIME COLUMNS.

SIGNATURE

LICENCE  
NUMBER



**DIAMOND AIRCRAFT INDUSTRIES INC.**  
D.O.T. APPROVED MANUFACTURER #161-93

Registration: C-GRWR  
AC Serial Number: 40.1124  
Engine Serial Number: L-35554-51E  
Prop Serial Number: NS496B  
Airframe Total Time: 5.3 hrs

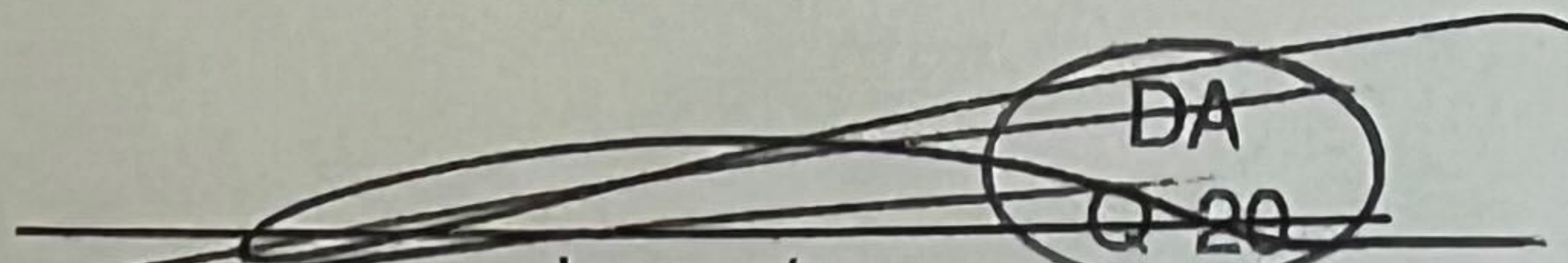
- Following limitations as per DA 40 AMM Chapter 4 (subject to change with revision):

Component	Hours	Years	Next Due:
Essential Bus	1000	-N/A-	1000 hrs
Pitot-Static System	1000	2	1000 or Oct 2013
Bonding System	1000	-N/A-	1000 hrs
Emergency Battery	-N/A-	2	Oct 2013
Rudder Cables	3000	5	3000 hrs or Oct 2016
Fuel hoses (aft of firewall)	2000	12	2000 hrs or Oct 2023
Fuel hoses (fwd of firewall)	2000	12	2000 hrs or Oct 2023
Oil hoses	2000	12	2000 hrs or Oct 2023

- The following STC's are incorporated:

- SA02476CH-D – Hartzell: HC-C2YR-1N/N7605 installation
- SA01254WI Amend. 1- G1000 : Garmin installation
- SA01389WI – GFC 700: Garmin installation
- SA01444WI-D – G1000 / GFC 700: Garmin upgrade and WAAS
- SA01480WI-D – SVT: Garmin SVT upgrade
- SA03281AT - POWER FLOW EXHAUST: installation
- SA01918LA - AMSAFE RESTRAINTS: installation

- THIS AIRCRAFT WAS INSPECTED FOR CONFORMITY TO APPLICABLE COMPANY RELEASED DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONCESSIONS).
- I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO TYPE CERTIFICATE: A-224 issue 7 (Canada), AND IS IN A FIT AND SAFE STATE FOR FLIGHT.
- Bi-weekly AWD check carried out to current revision 2011-23, all applicable AD's complied with
- The work described above was carried out IAW the applicable Standard of Airworthiness.

  
 Inspector

NOV 03 2011  
 date

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



Date: November 04, 2011  
RO-11-117 S/N: 40.1124 Reg: C- GRWR TTAF: 5.3 hrs.

The Following work has been carried out:  
NLG fairing set P/N D44-3229-00-00 removed and replaced with a New fairing set P/N DA4-3225-91-00X01 Set ,after minor repair to The mounting hole carried out per DAIA approved Drawing Number D44-3229-00-00. Rev. A

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature: [Signature] Lic or Stamp: [Stamp]



DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD	-	-	5	.3
NOV 04 2011	-	-	5	.3



Date: November 18, 2011  
RO-11-125 S/N: 40.1124 Reg: C- GRWR TTAF: 5.3 hrs.

The following work carried out:  
G1000 Database updates carried out.  
Jeppesen updated. Next update due Dec. 15, 2011.  
Flight charts updated. Next updates due Dec. 15, 2011.

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

DIAMOND AIRCRAFT INDUSTRIES AMO 161-93

Signature: [Signature] Lic or Stamp: [Stamp]



NOV 16 2011

Nov 18	3	5	6
✓ 26	16	7	2
Dec 8	5	7	7

Date: December 21, 2011  
Registration: C-GRWR  
Type: Diamond DA40  
S/N: 40-1124  
TTSN: 7.7hrs



Replaced RH magneto, p/n 4370 s/n 11081137 removed, s/n 11101368 installed.  
Magneto timing set to 25°BTC  
Ground run & OPS checked OK  
Mag drop 120rpm both mags @ 2000rpm leaned  
Idle 800rpm - 30 rpm increase @ mixture check

THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.

[Signature]

AUM 1

DEC 21 2011



DATE

HRS.

MIN.

HRS.

MIN.

BROUGHT FORWARD

**Diamond** AIRCRAFT AUTHORIZED SERVICE CENTRE

XU Aviation Ltd.  
2537 Huron St.  
London, Ontario  
Canada N5V 5J1

W/O: 6298  
C- ~~FHX~~ GRWR  
Type: DA40  
S/N: 40.1124  
Date: May 17 2012  
TTSN: 47.8  
PO Ref:

- Right MLG Tire and tube replaced

"The maintenance described above has been performed in accordance with the applicable standards of airworthiness"

XU

June 11, 2012

TTSN: 48.8

C-GRWR

Oil and filter replaced, Aeroshell W-100+ oil and ASL Cam Guard installed.  
Oil sample taken for analysis.

The maintenance described above has been carried out in accordance with the applicable standards of airworthiness.

*Clarence Beintema*  
Clarence Beintema 348208

LOGBOOK ENTRY: N416PE DA40 S/N 40.1124 ACTT: 86.8  
RECONFIGURED MODE S ADDRESS CODE FROM C-GRWR TO N416PE  
TESTED AND INSPECTED TRANSPONDER I/A/W FAR43 APPENDIX F (FAR91.413)  
AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF THIS TEST IS ON FILE  
AT THIS REPAIR STATION UNDER W.O. # 101012B DATE: OCT 10, 2012

SIGNATURE *Mark B. Accardew* INSP. *MBa*

TROPIC RADIO INC. 2695 N.W. 56th ST. HANGER 53-A  
FT.LAUDERDALE FL. 33309 FAA APPROVED REPAIR STATION # RZ4R510M  
FT.LAUDERDALE EXECUTIVE AIRPORT\*ARCHER RAMP\*  
TELEPHONE # 954-776-4030 WWW.TROPICRADIO.COM

MAKE: Diamond  
MODEL: DA 40  
S/N: 40.1124  
REG. NO: C-GRWR  
WORK ORDER:  
5166-09-2012



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

DATE: 10/12/2012  
A/C TSN: 86.8  
TACH: 86.8

**Airframe Entries**

(2) CW ANNUAL INSPECTION ON THIS AIRFRAME IAW FAR 43 APPENDIX D USING DIAMOND DA-40 M/M CH 5 INSPECTION CHECKLIST AS A GUIDE. CW FAR 91.207 D ELT INSPECTION AND FUNCTIONAL CHECK. ELT BATTERY EXPIRATION DATE: 9-2018. ADs CHECKED THROUGH 2012-21.... (7) REMOVED ELT FOR RE-PROGRAM. ADC6498A755B701. REINSTALLED ELT IAW DA40 AMM 25-60-00 AND OPS CHECK IAW FAR 91.207. EXP 9-2018. CHECKED GOOD... (8) CW CONTINUED AIRWORTHINESS ANNUAL REQUIREMENTS FOR AMSAFE SEAT BELTS NO DEFECT FOUND.... (10) COMPLIED WITH GARMIN GFC 700 FLAP IN MOTION INPUT VERIFICATION IAW GARMIN G1000 AIRWORTHINESS LIMITATIONS SECTION 4.1 ALL FLAP IN MOTION TEST OK.

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: 10/12/2012

SIGNED: *Richie Quiles*

Richie Quiles  
Certified Repair Station No. 9PRR402B

Work Order: 5166-09-2012

Printed by EBis 3 (datcomedia.com)



MAKE: DIAMOND  
MODEL: DA-40  
S/N: 40.1124  
REG. NO: 416PE  
WORK ORDER:  
5166-09-2012



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

DATE: 10/12/2012  
A/C TSN: 86.8  
TACH: 86.8

**Airframe Entries**

(6) REMOVED PREVIOUS REGISTRATION NUMBER OF C-GRWR AND INSTALLED CURRENT REGISTRATION NUMBER OF N416PE

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: 10/12/2012

SIGNED:

Richie Quiles  
Certified Repair Station No. 9PRR402B

Work Order: 5166-09-2012

Printed by EBis 3 (datcomedia.com)

N416PE Diamond DA 40 40.1124 AFTT: 86.8 Nov. 8, 2012

I find that the aircraft meets the requirements for the certification requested and have issued a standard airworthiness certificated dated Nov 8, 2012. The next inspection is due October 2013.

Bradley J. Burdue

DART710615GL



AOA Maintenance LLC  
319 N Crystal Lake Drive  
Orlando Florida 32803

A/C: N416PE

S/N 40.1124

MODEL: DA40-XLS

TACH: 94.2

HOBBS: 126.3

11/12/2012

**AIRFRAME:**

**OWNER STATES:**

THAT THE FUEL IS LEAKING OUT OF THE RH OUTBOARD VENT AND EGT #2 IS ERRATIC IN FLIGHT:  
REMOVED ALL PANELS RH AND LH. CHECKED VENT LINES FOR KINKS, NO DEFECTS NOTED. CLEANED CHECK VALVES. NO DEFECTS NOTED.  
FUELED UP A/C WITH NO FURTHER DEFECTS OR LEAKS NOTED.  
CLEANED EGT #2 CONNECTOR(S), NO DEFECTS NOTED ON GROUND.

CHARLES WILSON  
IA 3114515



BROUGHT FORWARD

July 9-13

187 4

GARMIN HOBBS

JUL 16 2013

Date: July 16, 2013  
Type: Diamond DA40  
TTAF: 187.4hrs Garmin Hobbs

Registration: N416PE  
S/N: 40.1124



A 100hr inspection and servicing has been performed using the manufacturer's maintenance manual as a guide.  
Inspected rudder cables for corrosion, no cable corrosion observed.  
AD 2013-0020R2 Safety belt inspection/replacement - N/A, no record of repairs, original belts installed.  
AD 2013-0145 Wing aft main spar/cabin modification - N/A by S/N.

Inspection findings/snags//rectifications:

OAT probe rusting - cleaned probe.  
LH & RH steps beginning to corrode - cleaned steps.  
Tie down hooks rusting - cleaned tie downs.  
Some flap/aileron hinges rusting - cleaned & treated with Dinitrol AV8.  
Nose landing gear leg has paint chip, rusting - cleaned & touched up paint.  
Elevator trim cable pushrod end rusting - cleaned & applied Dinitrol AV8.  
LH & RH main wheel tires bald - replaced tubes & tires, LH s/n 11782458 off, new tube & tire s/n 11962075 on, RH s/n 12492128 off, new tube & tire s/n 11952131 on.  
RH aileron hinge pin has roll pin backed out 99% - resecured roll pin.  
Fuel quantity indication red crossed out - rebooted Garmins, checked OK.  
LH aft position light INOP - relamped, p/n 34-0428070-64 installed, function checked OK.  
Brake reservoirs low - serviced reservoirs.

JUL 16 2013

Date: July 16, 2013  
Type: Diamond DA40  
TTAF: 187.4hrs Garmin Hobbs  
Engine

Registration: N416PE  
S/N: 40.1124



A 100hr inspection and servicing has been performed using the manufacturer's maintenance manual as a guide.  
A Motostat was performed, 76/80 76/80 78/80 78/80  
Changed oil & filter, inspected oil filter element & suction screen in accordance with LYC SB SB480E - no contaminants found. CH48110-1 filter installed. Added Aeroshell W100+ oil and CamGuard additive.  
AD CF90-03R2 Exhaust type cabin heater - completed, OK at this time.  
AD 2011-26-04 LYC SB342F Fuel injection lines & clamping - completed, OK at this time.  
AD 2012-03-06 Failed fuel servo diaphragm - N/A, no record of replacement.  
AD 2012-19-01 Lycoming engines failure of crankshaft - N/A by S/N, not on list.  
Aircraft ground run & leak checked OK.

Inspection findings/snags//rectifications:

Spark plug nuts corroding - cleaned nuts.  
Oil filler neck loose - tightened filler neck.  
Fuel injector nozzle line nut corroding - cleaned nut.  
Powerflow Exhaust inspection completed, exhaust pipe internal core/muffler material eroded & 3/4 missing - replaced muffler core p/n PFS-8016 kit muffler insert installed.  
Exhaust pipe support hanger torn/tearing - replaced hanger.  
Rocker covers leaking oil - replaced rocker cover gaskets p/n ADS75906-S installed.  
Mag timing checked, LH mag at 25 1/2°, RH magneto timing 28-29° - adjusted to 25° BTC.

THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.

*[Handwritten Signature]*

AUM 1

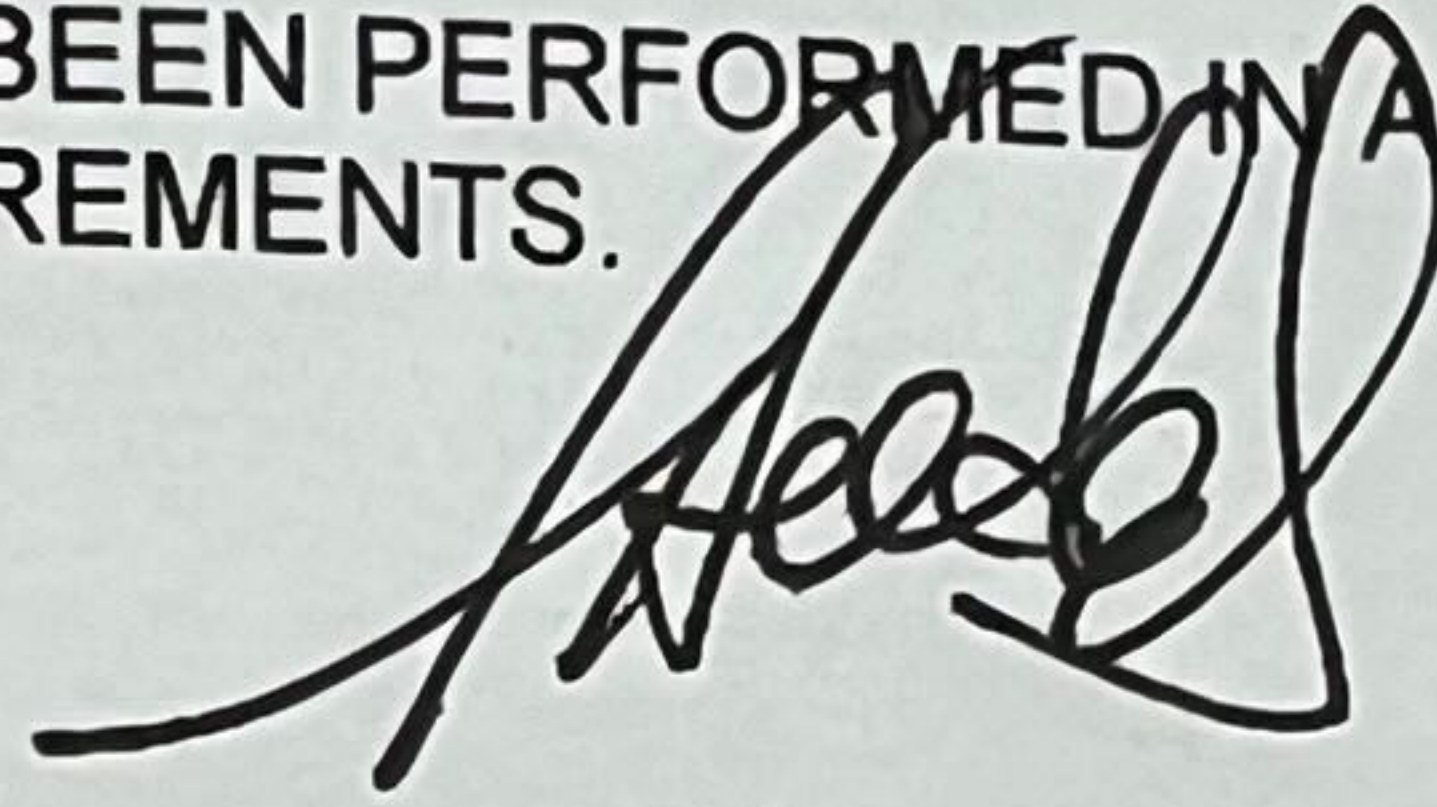
CARRIED FORWARD



Brake reservoirs & co-pilot master cylinders hydraulic fluid sticky - cleaned reservoirs and master cylinders.  
 Belly very oily/dirty - cleaned belly.  
 Cowls dirty - cleaned cowls.  
 Cowl fasteners corroding - treated with Dinitrol AV8.  
 Bottom cowl interior eroding, heatshield material peeling off - cleaned cowl & repainted heatshield material.  
 Skin along firewall bottom edge eroding, heatshield material peeling off - firewall edge & repainted heatshield material.  
 Aircraft washed.

An Independent check of the rudder installation carried out in accordance with AWM571-10(4).  
 Joe Grgic

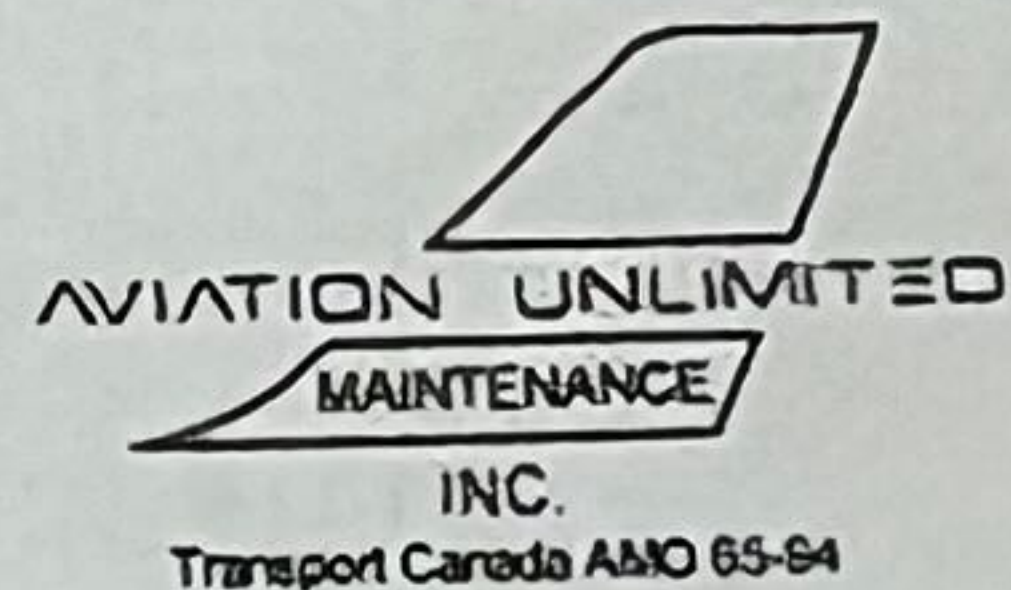
THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.



**AUM 1**

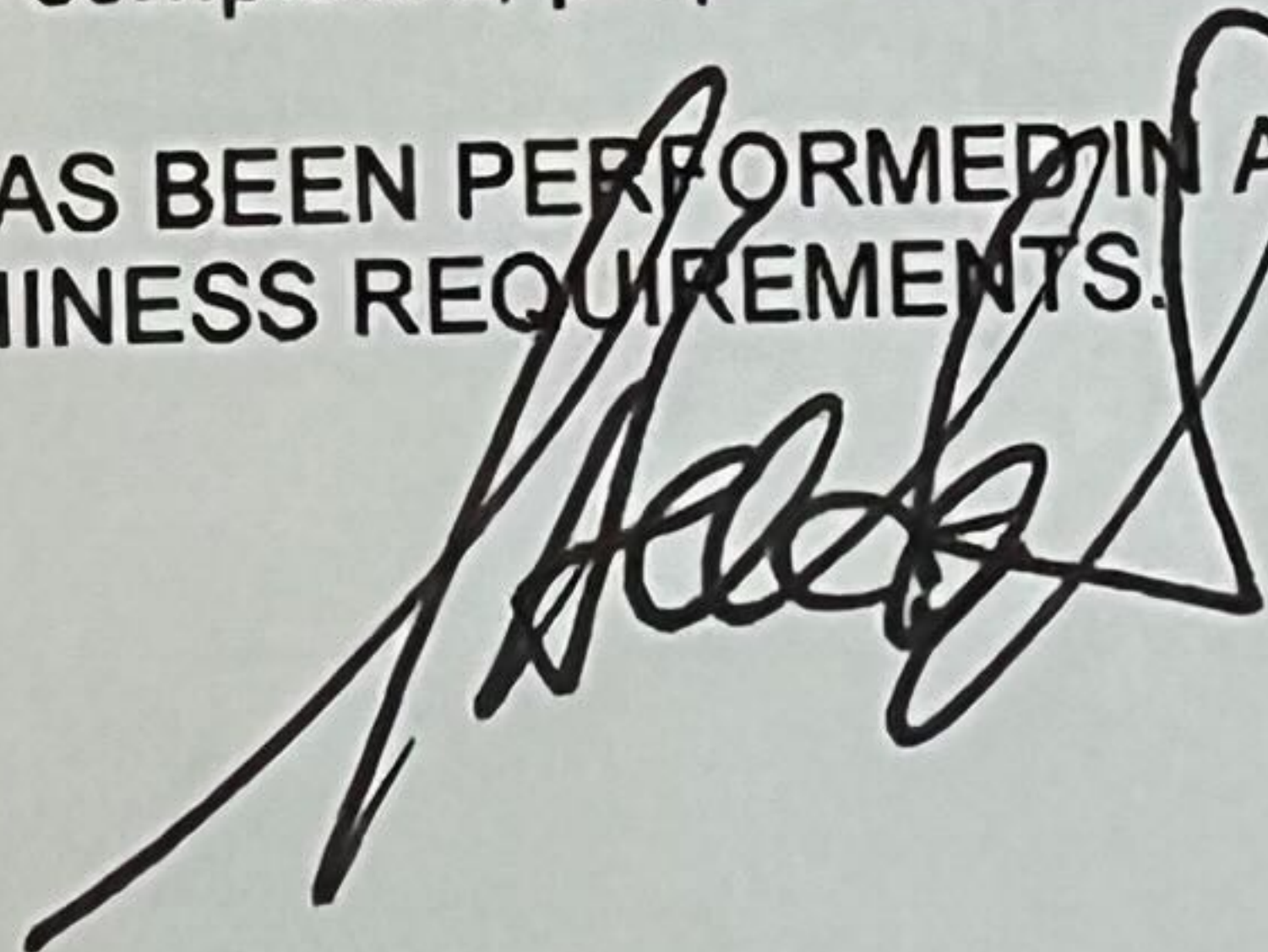
Date: July 16, 2013  
 Type: Diamond DA40  
 TTAF: 187.4hrs Garmin Hobbs  
 Prop

Registration: N416PE  
 S/N: 40.1124



A 100hr inspection and servicing has been performed using the manufacturer's maintenance manual as a guide.  
 Hartzell 100hr inspection & lubrication completed, prop lubed with Aeroshell#6 grease.

THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.



**AUM 1**

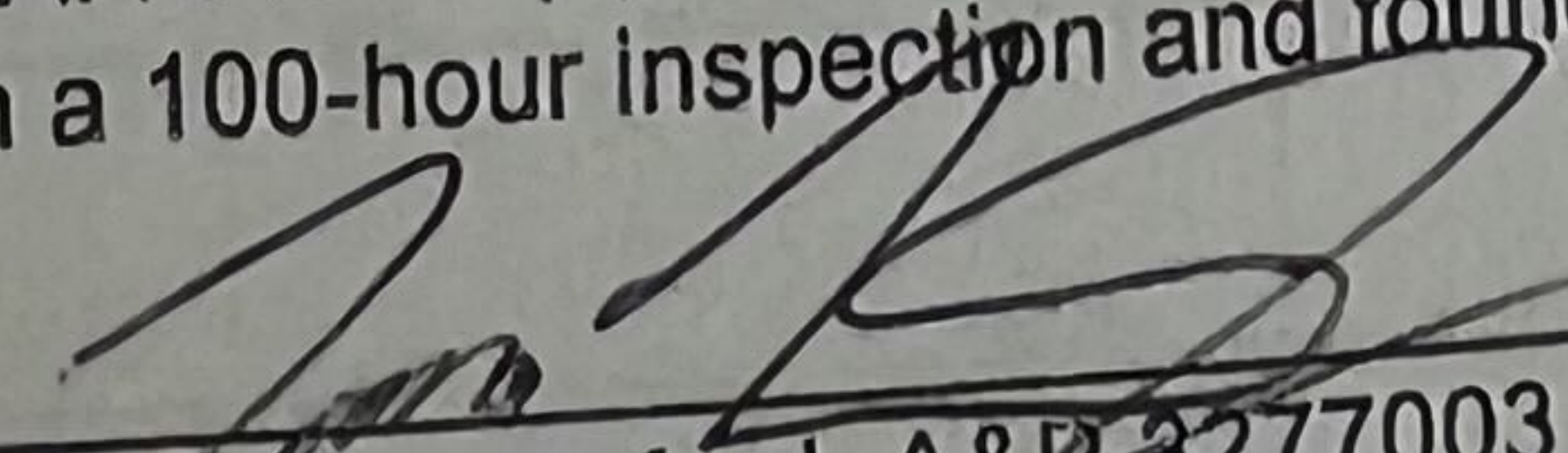
**Primeplanes Aircraft Services Inc.**

240 Aviation Drive North Suite 102  
 Naples, Florida 34104 ph. 239-659-4005



REG. **N416PE** TYPE **DA40 XLS** TACH **220.9** ACTT **220.9**  
 Performed 100-hour inspection in accordance with FAR Part 43 Appendix D, using Diamond Aircraft DA 40 Series AMM, Maintenance Checklist Airframe, 05-28-50 as a guide; Lubricated airframe as required; Removed, cleaned, inspected, repacked, and reinstalled all wheel bearings; Serviced tire pressures; Lubricated airframe as required; Removed and replaced standby battery with new, Diamond P/N D60-2560-91-00, S/N 063-25; Ops check of standby power ok; Removed and replaced avionics filter element with new, Bracket P/N BA 368E; All AD's researched through 10/29/2013, none applicable at this time; ELT inspected in accordance with FAR 91.207(d), battery expires Sept 2018; I certify that this airframe has been inspected in accordance with a 100-hour inspection and found to be in an airworthy condition. --END--

Signature

  
 Simon Crawford, A&P 3277003

Date

**10/29/2013**



DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.	
	HRS.	MIN.	HRS.	MIN.

ENGINEERING RECORD  
NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETION

N416PE a Diamond D40 S/N 40.1124 Date: 10-30-2013 Tach 220.9 TTAF 220.9  
 - Serviced Aircraft IAW Diamond service manual for DA40 series Aircraft,  
 - Checked ELT IAW FAR 91.207d Ok next due Tach 320.9 Battery next due SEPT 2018  
 - Checked AD's through Issue 2013-21-02 No new noted,  
 - AD 2011-26-04 Fuel Injector Lines by visually inspection no defects noted next due Tach 320.9  
 - I certify that This Aircraft has been inspected IAW an Annual inspection IAW FAR 43 Apex D and has been determined to be in an airworthy condition at this time.  
 - A&P 3496744 IA John Swasey *[Signature]*

N416PE Hobbs 274.9  
 25 Sept 13 R+R AT MAIN  
 Tire + Tube - lube wheel  
 Bearing - ck Brakes.  
 C. *[Signature]* A&P 1920024

**SOUTHERN AIRCRAFT MAINTENANCE**

25230 Pinson Dr, Bonita Springs, FL 34135 Ph. 239-287-5657

**MAINTENANCE/INSPECTION ENTRIES**

Feb 12, 2014 N#:N416PE SERIAL NUMBER: 40.502 ACCT: 352.5 Landings: N/A

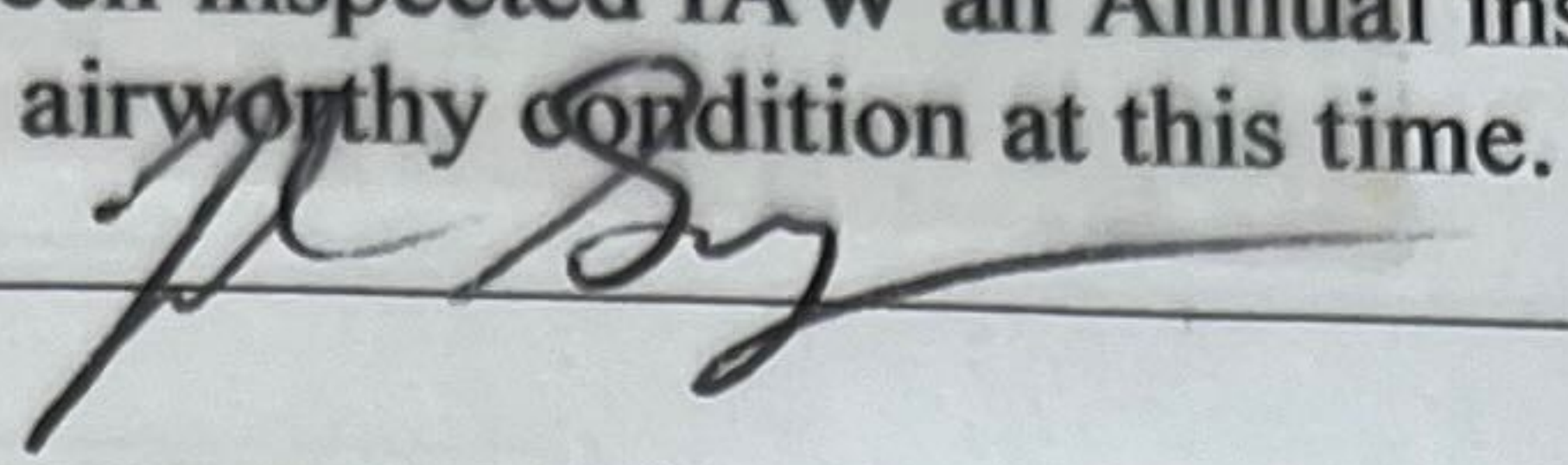
#1 Engine TT: 352.5 Hobbs  
 271.5 TACH

**Complied with the following items:**

C/W 50 hour inspection IAW Diamond Aircraft Maintenance checklist for DA40.  
 Drained engine oil while hot installed new filter CH48110-1 and 8 Qts of Aeroshell 15W50, inspected for contaminants none found safetied filter leak checked good.

The aforementioned maintenance to this aircraft was accomplished in accordance with manufacturers Maintenance manual and current FAR's. All leak, functional, and operational checks were complied with as required and the aircraft is approved for return to service. Ed Davidson A&P 3107460  
*[Signature]*



N416PE, Diamond DA40-FP, S/N 40.FC1124 Date: 12-19-2014 Tach 298.5 TTAF 298.5 Hobbs 387.1  
Serviced Aircraft IAW Diamond manual,  
Checked ELT IAW FAR 91.207d Ok next due Tach 398.5 Battery next due 12/2016  
Checked AD's through Issue 2014-26-53  
New Noted 2014-13-08 Wing inspection and repair not due until 2000 TIS or March 2024,  
I certify that This Aircraft has been inspected IAW an Annual inspection IAW FAR 43 Apex D and  
has been determined to be in an airworthy condition at this time.  
A&P 3496744 IA John Swasey 

### SOUTHERN AIRCRAFT MAINTENANCE

25230 Pinson Dr, Bonita Springs, FL 34135 Ph. 239-287-5657  
MAINTENANCE/INSPECTION ENTRIES

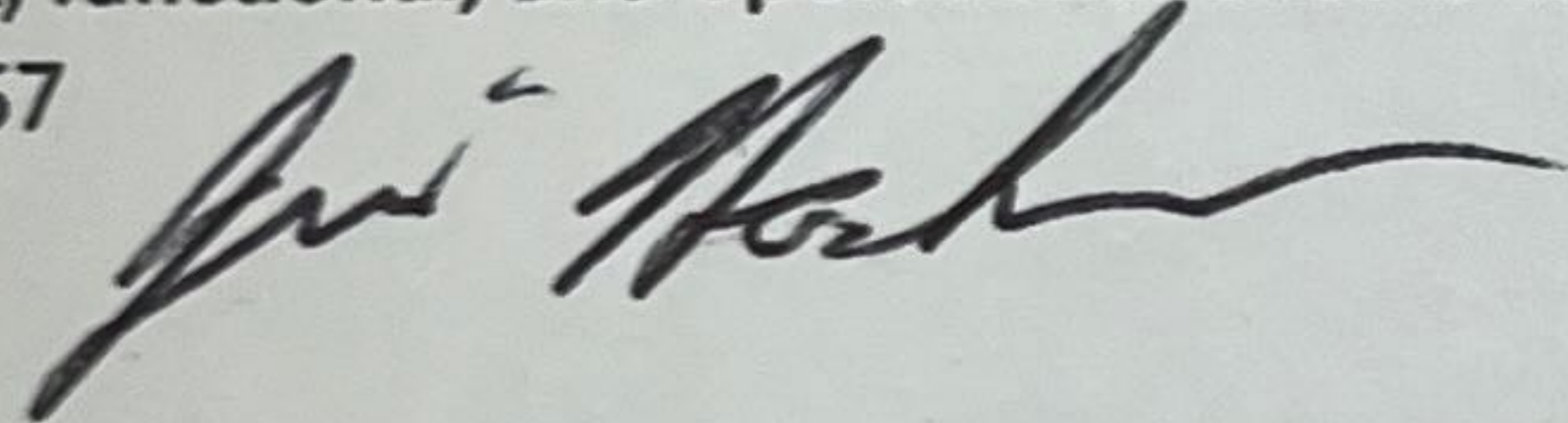
Feb 12, 2014 N#:N416PE SERIAL NUMBER: 40.502 ACCT: 333.9 Landings: N/A

#1 Engine TT: 333.9

Complied with the following items:

Removed & replaced Engine starter P/N 149-24LS S/N F4L-301108 off S/N F4L101309 OH on.

The aforementioned maintenance to this aircraft was accomplished in accordance with manufacturers Maintenance manual and current FAR's.  
All leak, functional, and operational checks were complied with as required and the aircraft is approved for return to service. Jim Hashman A&P  
3828257




SERVICE CENTER

APG Aviation - Maintenance & Repair  
28000 Airport Rd. A-17 Punta Gorda, FL 33982  
Tel: 941-575-8605 · Fax: 941-575-8734 · qa@avionix.com

12-10-2015 N416PE DA-40 SN 40.1124 HM 458.3 ENG TACH 351.2

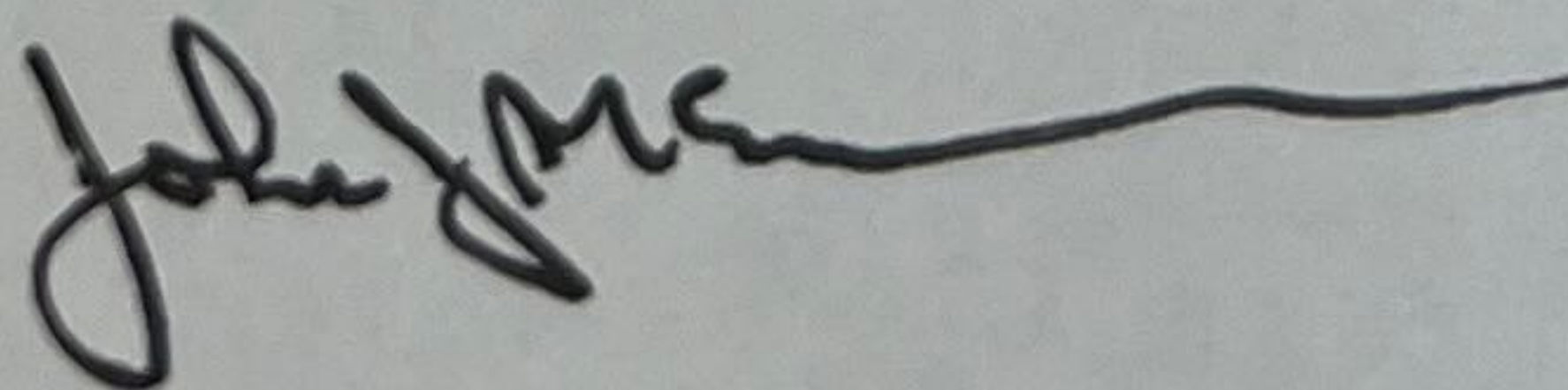
CW THE ANNUAL INSPECTION CHECKLIST. LUBRICATED FLIGHT CONTROLS,  
GUIDE BLOCKS, PULLEYS, AND ROD ENDS. INSPECTED ELT IAW FAR 91.207d.  
BATTERY DUE DATE 09-2018. SERVICED MAIN LANDING GEAR AND BRAKES.  
REPLACED RIGHT MAIN TIRE 15 X 6.0 6 PLY AND TUBE. OPERATIONAL CHECK  
SATISFACTORY.

  
MATTHEW SOLINSKY  
3443900 AP

TTAF 351.2  
HM 458.3

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IAW AN ANNUAL  
INSPECTION AS PER FAR PART 43 APP D AND WAS FOUND TO BE IN AN  
AIRWORTHY CONDITION. AD'S THRU REV 2015-24. SEE AD LISTING IN ACFT  
RECORDS FOR RECURRING AD'S AND COMPLIANCE TIMES.

JOHN McCORMACK  
47580823 IA



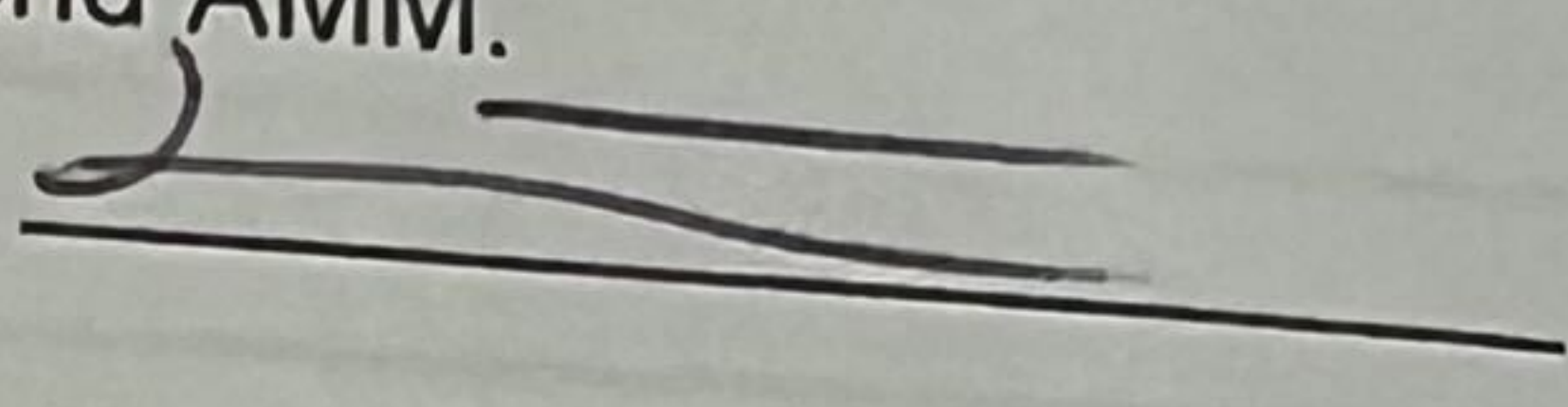


DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

ENGINEERING RECORD

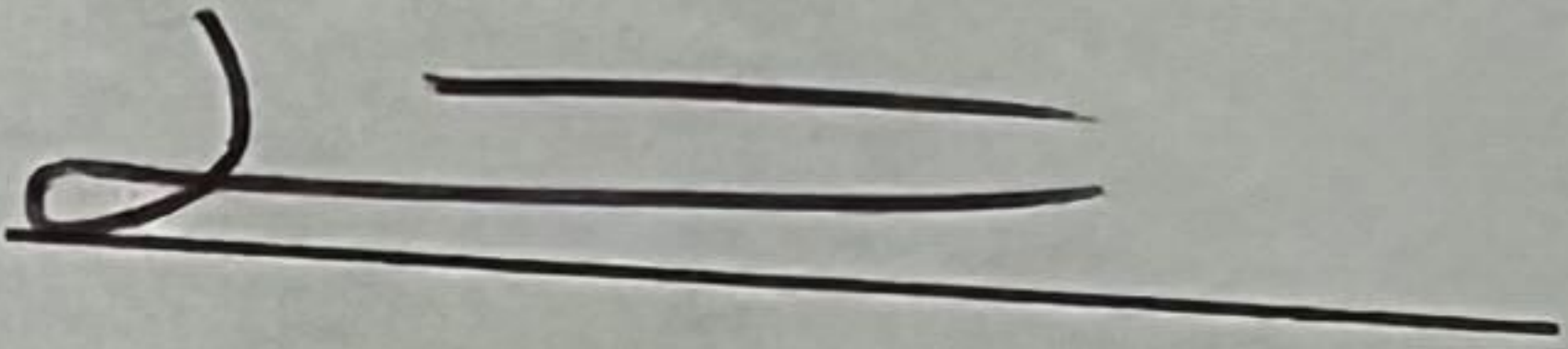
**General**

3/7/2016

Tach Time: 429.5  
 Removed L/H Seat for access  
 Retorqued L/H stick upper mount bolt due to free play.  
 Reinstalled L/H seat  
 All work preformed I.A.W. Diamond AMM.  
 David Austin A&P 3635382 

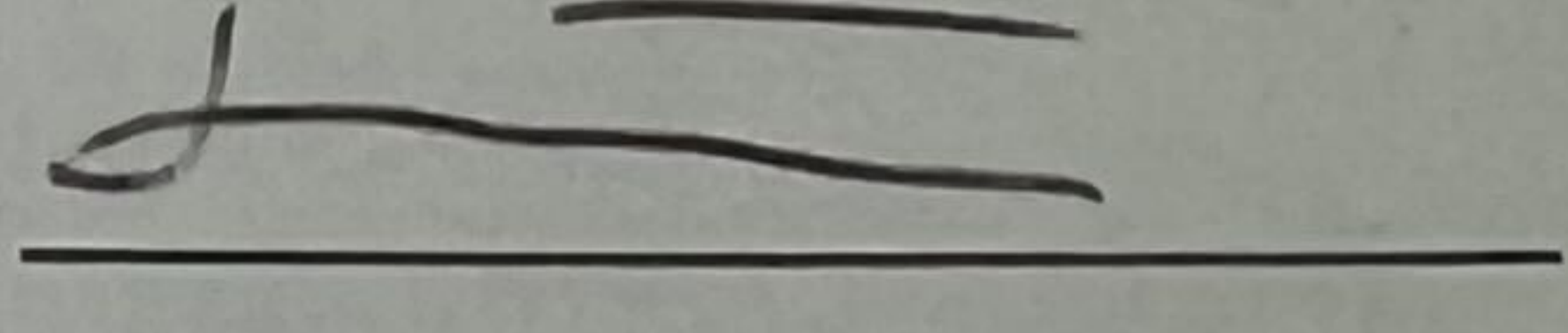
**General**

3/17/2016

Tach Time: 450.6  
 Removed and replaced canopy and passenger door locks P/N 3802-0022.  
 David Austin A&P 3635382 

**General**

4/13/2016

Tach Time: 471.6  
 Removed and replaced battery P/N RG24-15M  
 Troubleshoot fuel flow sensor erratic reading could not duplicate.  
 Disconnected and flushed sensor and cleaned connector  
 reinstalled preformed leak check and run-up.  
 David Austin A&P 3635382 



ENTRIES. DRAW A DI

LICENCE

**Airframe Entries**

(3) PERFORMED AIRCRAFT EVALUATION AS REQUESTED BY CUSTOMER. ENG CYL COMPRESSIONS: 70-76-74-75/80. REMOVED OIL FILTER AND INSPECTED FOR METAL, NO DEFECTS FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1.... (8) C/W CH 4 CONTINUED AIRWORTHINESS REQUIREMENTS BY REPLACEMENT OF EMERGENCY BATTERY PACK WITH NEW P/N D60-2560-91-00 IAW DA40 180 M/M CH 24-30. NEXT REPLACEMENT DUE 08/2018.... (13) C/W GARMIN GFC FLAP IN MOTION INPUT CHECK IAW GARMIN G1000 DA-40 AIRWORTHINESS LIMITATIONS SEC 4.1. NO DEFECTS NOTED.... (14) C/W GARMIN REPLACEMENT OF 5 LIGHTNING PROTECTION SLOW BLOW FUSES IAW GARMIN G1000 AIRWORTHINESS LIMITATIONS SECTION 4.1.... (15) C/W POWERFLOW EXHAUST SYSTEM CONTINUED AIRWORTHINESS IAW WITH PFS 15250-00 REV E CHAPTER 5. SENT EXHAUST ASSY TO PLANEXHAUST, CORP (UNDER P/O 15265) AND RE INSTALLED AFTER REPAIRS.... (16) C/W AMSAFE SEAT BELTS CONTINUED AIRWORTHINESS SYSTEM TEST. NO DEFECTS FOUND AT THIS TIME.... (18) REPLACED ELT REMOTE SWITCH BATTERY WITH NEW DURACELL P/N 28L. NEXT REPLACEMENT DUE 08/2021.... (19) REPLACED ALTERNATOR AND BATTERY COOLING DUCTS WITH NEW P/N SCAT4 AS REQUIRED.... (21) REPLACED LH WING AFT NAV LIGHT WITH NEW P/N A508-28 IAW DA40 180 M/M CH 33-40-00. OPS CHECK GOOD.... (22) RESEALED OIL COOLER INLET PLATE AS REQUIRED.... (23) RESEALED ENGINE BAFFLES WITH FIREWALL SEALANT P/N CS1900KIT AS REQUIRED.... (24) REPAIRED LEFT MLG WHEEL PANT IAW AC43.13-1B, CH 3. PAINTED AND RE INSTALLED IAW DA40 M/M CH 32-40-00.... (25) C/W GARMIN STC SB1334 REV A. G1000 SYSTEM SOFTWARE UPDATE TO VERSION 0321.23. ENABLED AIRFRAME OPTIONS. WORK PERFORMED IAW THIS SB AND G1000 SYSTEM MM.... (26) REMOVED 406 ELT AND SENT OUT FOR RE PROGRAMMING DUE TO REGISTRATION NUMBER CHANGE. REGISTERED WITH NOAA AND INSTALLED ON AIRCRAFT.... (27) REPLACED NOSE TIRE WITH NEW P/N 500-5-6GDY FSII IAW DA 40 180 MM CH 32-40-00 AND CLEVELAND MAINTENANCE MANUAL AWBCMM0001-13/USA SECTION 300.

Powerflow  
Exh  
←

2 of 2

DATE: 8/25/2016

SIGNED:

Work Order: 7221-08-2016

EMMANUEL VICIOSO  
CRS 9PRR402B

Printed by EBis 3 (datcomedia.com)

MAKE: Diamond  
MODEL: DA-40  
S/N: 40.1124  
REG. NO: 442Z  
WORK ORDER:  
7257-08-2016



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

DATE: 8/31/2016  
A/C TSN: 544.5  
TACH: 544.5

**Airframe Entries**

(3) REPLACED FLAP UP INDICATOR LIGHT BULB WITH NEW P/N T4.6 24-20 AS REQUIRED.

DATE: 8/31/2016

SIGNED:

Work Order: 7257-08-2016

EMMANUEL VICIOSO  
CRS 9PRR402B

Printed by EBis 3 (datcomedia.com)

MAKE: Diamond  
MODEL: DA-40  
S/N: 40.1124  
REG. NO: 442Z  
WORK ORDER:  
7291-09-2016



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

DATE: 10/7/2016  
A/C TSN: 544.5  
TACH: 544.5

**Airframe Entries**

(2) REPLACED LEFT WING TIP ASSY WITH SERVICEABLE ASSY AND PAINTED TO MATCH. REPLACED LEFT WING AFT POSITION BULB WITH NEW P/N A508-28 IAW DA40 MM CH 33-40. OPS CHECKED GOOD.

DATE: 10/7/2016

SIGNED:

Work Order: 7291-09-2016

EMMANUEL VICIOSO  
CRS 9PRR402B

Printed by EBis 3 (datcomedia.com)



DATE	DAILY TOTAL	TOTAL AIR TIME SINCE MFG.
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LOGBOOK ENTRY:

BROUGHT FORWARDS

DATE: Oct 12, 16 A/C TYPE DA-40  
 REG# N4422 A/C TIME: 574.5

PERFORMED ELT TEST AND INSPECTION I/A/W FAR 91.207 D. PAR. 1,2,3,4  
 ON ELT MODEL ME406 P/N 453-6603 S/N 197-10120  
 AND FOUND SATISFACTORY APPROVED FOR RETURN TO SERVICE  
 UNDER W.O. # 101216. ELT BATTERY DUE DATE: Sept 2018

*Mark B. Alicandro*

MARK B. ALICANDRO  
 FOR  
 TROPIC RADIO INC. 2695 NW 56<sup>TH</sup> ST. HANGER 53-A  
 FT. LAUDERDALE, FL. 33309 TEL # 954-776-4030  
 FAA C.R.S. # RZ4R510M

1 of 2

MAKE: Diamond  
 MODEL: DA-40  
 S/N: 40.1124  
 REG. NO: 4422  
 WORK ORDER:  
 7311-10-2016



Premier Aircraft Service, Inc.

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

DATE: 10/14/2016  
 A/C TSN: 544.5  
 TACH: 544.5

Airframe Entries

(2) C/W ANNUAL INSPECTION ON THIS AIRFRAME IAW FAR 43 APPENDIX D, USING DA40-180 MM INSPECTION GUIDE. C/W FAR 91.207 D ELT INSPECTION AND FUNCTIONAL CHECK. ELT BATTERY EXPIRATION DATE: SEPT/2018. ADS CHECKED THROUGH CURRENT ON ATP.... (8) COMPLIED WITH 5 YR ENG MOUNT ATTACHING BOLT INSPECTION NO DEFECTS FOUND AT THIS TIME.... (9) COMPLIED WITH CH.5 AUTOPILOT BRIDLE CABLE TENSION CHECK (YEARLY) NO DEFECTS FOUND AT THIS TIME.... (10) COMPLIED WITH CH.5 BRAKE FLUID REPLACEMENT. BLEED LEFT AND RIGHT BRAKE SYSTEM IAW DA40-180 M/M CH 32-40.... (12) CLEANED AND PAINTED INSIDE OF ENG TOP AND BOTTOM COWLING WITH FIRE PROTECTION PAINT IAW DA40 M/M CH 71-10-00.... (13) CLEANED AND PAINTED BATTERY COVER WITH FIRE PAINT IAW DA40 180 M/M CH 51-30-00... (14) REPLACED RIGHT MAIN LANDING GEAR INBOARD BEARING AND CUP WITH NEW P/N 13889-20629, 13836-20629 IAW DA40-180 M/M CH 32-40.... (15) RETIGHTEN FUEL SELECTOR HOLD DOWN HARDWARE AS REQUIRED.... (16) CLEANED LENS AND REPLACED 4 SCREWS P/N DIN965-M4X20-ZP AND ONE GROMMET P/N P0026 IAW DA40 180 M/M CH 33-40-00... (17) FORWARD NLG LEG PAINTED BY DAWDESIGN IAW DIAMOND DA40 M/M CHAPTER 51-20-00... (18) BOTH LH AND RH PANTS PAINTED BY DAWDESIGN IAW DIAMOND DA40 M/M CHAPTER 51-20-00.... (19) REPAIRED AND PAINTED R/H MLG WHEEL PANT COVER IAW AC43.13-1B CH 3 .... (20) REPLACED LH AILERON ROD END GROUND STRAP AS REQUIRED. INSTALLED GROUND STRAP IAW DA40 180 M/M CH 27-10-00. TRAVEL CHECK GOOD.... (21) REPLACED LH FLAP ROD BOLT WITH NEW P/N DIN9037-M6X26 IAW DA40 180 M/M CH 57-50-00. OPS CHECK GOOD.... (22) REPLACED LEFT AND RIGHT BRAKE LININGS WITH NEW P/N 066-14100 IAW CLEVELAND MANUAL AWBCMM001-13/USA SECTION 200 AND DA40-180 M/M CH 32-40.

2 of 2

I CERTIFY THIS AIRFRAME, ENGINE, OR PROPELLER HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

DATE: 10/14/2016

SIGNED:

*Samuel Tavarez Jr.*  
 SAMUEL TAVAREZ JR.  
 CRS# 9PRR402B

Work Order: 7311-10-2016

Printed by EBis 3 (datcomedia.com)



MAKE: Diamond  
MODEL: DA-40  
S/N: 40.1124  
REG. NO: 4432  
WORK ORDER:  
7311-10-2016



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

DATE: 10/17/2016  
A/C TSN: 544.5  
TACH: 544.5

**Airframe Entries**

(23) POST MAINTENANCE OPERATIONAL FLIGHT PERFORMED BY DAVID MICHAEL POMERANCE, RATED PILOT CERTIFICATE # 1655862 PER 14 CFR 91.407. DISCREPANCIES THAT FOLLOW WERE FOUND DURING THE RTS FLIGHT AND WILL BE LISTED ON THIS WORK ORDER.

DATE: 10/17/2016

SIGNED:

Work Order: 7311-10-2016

DAVID MICHAEL POMERANCE  
ATP# 1655862

Printed by EBis 3 (datcomedia.com)



10000 Airpark Way, Pacoima, CA 91331 USA  
telephone 818-896-6442, 800-628-6756 (toll free)  
fax 818-896-9541 vista@vistaaviation.com

Date 11-4-16  
Tach  
N 4421Z

W/O 203119  
SN 40-1124

Inspect for inop starter. Replaced battery. Replaced customer supplied starter Ops check OK

Vista aviation  
John Rhodes 1971640

Premier Aircraft Service  
5540 NW 23rd Ave Fort Lauderdale FL 33309 954-334-2393  
FAA Air Agency Certificate Number : 9PRR402  
**CONTINUE-IN-SERVICE TAG**

1 Work Order #	6848-10-2015	102.3 hrs
2 Part #	149-24LS	
3 S/N	F4L-271203	
4 Life Status	N262AS	
5 Remarks	Removed Due To A/C Inop	
6 Tech/Insp	Harley Bullen	
7 Date	2/30/2015	



DATE

HRS.

MIN.

HRS.

MIN.

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

BROUGHT FORWARD



10000 Airpark Way, Pacoima, CA 91331 USA  
telephone 818-896-5442, 800-828-6756 (toll free)  
fax 818-896-9541 vista@vistaaviation.com

Date 11-21-16  
Tach 738  
N 442Z

W/O 202987  
SN

Replace cracked air filter with new,

John Rhodes  
A&P, IA 1971640



10000 Airpark Way, Pacoima, CA 91331 USA  
telephone 818-896-5442, 800-828-6756 (toll free)  
fax 818-896-9541 vista@vistaaviation.com

Date 1-25-18  
N 442Z  
Tach 827.9

W/O 203443  
SN 40.1124

Perform annual inspection per Diamond List. Inspect ELT per FAR 91.207(d) no defects noted. Battery due date Sept 2018. CW AD 2009-10-04 Nose gear. No defects next due 1127.9 hrs or 12 mos whichever comes first. Replace LH tire. Remove Whelen strobe and installed new Aero LED wing tip Nav strobe assembly. Used existing switches and wiring. Clean and seal edges of firewall. Replace cowl anti chafe tape. Tighten right cup holder. Repair alternate air and adjust. Adjust throttle spring.

I certify this aircraft has been inspected in accordance with a annual inspection, was found in airworthy condition, and is approved for return to service.

A&P IA 1971640  
John Rhodes



10000 Airpark Way, Pacoima, CA 91331 USA  
telephone 818-896-5442, 800-828-6756 (toll free)  
fax 818-896-9541 vista@vistaaviation.com

Date 1-25-18  
N 442Z  
Tach 827.9

W/O 203443  
SN 40-1124

Remove right wing and replace fuel sender per Diamond maintenance manual. Recheck installation OK for return to service

John Rhodes  
A/P 1971640 I/A



10000 Airpark Way, Pacoima, CA 91331 USA  
telephone 818-896-5442, 800-828-6756 (toll free)  
fax 818-896-9541 vista@vistaaviation.com

Date 5-29-18  
N 442Z  
Tach 670.9

W/O 204138  
SN 40.1124

Replace aircraft battery with new Gill G243 and charge

John Rhodes  
A/P 1971640 I/A

CARRIED FORWARD





Date 06/01/2018  
 WO# 603324  
 N442Z  
 TT  
 Tach 853.1

This pitot and static system and transponder complies with FAR 91.411, FAR 91.413 in accordance with FAR 43 appendix E and appendix F. Static System tested to 18,000 ft.

*William DeBarmore*

FAA CRS #XW2R308L  
 Bill DeBarmore

8-25-18 Dynamic Balanced prop.  
 HOBBS 712.5 See run card for details  
 Before. 4  
 final. 00  
 Don Allison  
 A&P 1481667 I.A.  
 760 9635488



Date 2-13-19  
 N 442Z  
 Tach 911.0  
 WO SN 40.1124

Perform annual inspection per Diamond Maintenance Manual. Inspect ELT per FAR 91.207(d) no faults battery due date APR 2025. Reseal right brake caliper and bleed brake. Service battery. Service gascolator. Inspect nose gear per AD 2009-10-04 no fault next due each 200 hrs or annual. I certify this aircraft has been inspected in accordance with a annual inspection, was found in airworthy condition, and is approved for return to service.

A&P IA 1971640  
 John Rhodes

*John Rhodes*



Date 03/05/2020  
 N 442Z  
 Tach 747.8  
 ATSN 747.8  
 WO 203584  
 SN 40.1124  
 Hobbs 0939.6

Perform annual inspection on this airframe iaw DA40-180 Service Manual & Checklist as a guide. FAR 91-411 & 91-413 transponder, altimeter, pitot/static check & test next due **June 2020**. FAR 91-207(c) ELT battery expires **November 2025**. FAR 91-207(d)(1-4) ELT functional test performed satisfactory, next due **March 2021**. AD 2015-19-07 FI lines & clamps cw by inspection, no defect noted, next due 847.8 tach. AD 2009-10-04 NLG leg crack cw by inspection, no defect noted, next due 03/2021 or 947.8 tis. Removed FOD from read door panel. Removed pax door-lock assy, cleaned and reposition door latch and reinstalled, checked door-lock ops good. Replaced dome & map light bulbs with new LED, checked light operation satisfactory. Removed and clean rear door actuator and reinstalled with new clip p/n DIN71805S10, checked door operation satisfactory. Lube all flight control surfaces, pullies & springs. Serviced tires and repacked wheel bearings. Serviced battery. This aircraft is in compliance with all current and applicable ADs and printed records placed in aircraft logbook folder.

I certify this Aircraft has been inspected in accordance with Annual inspection, and it was found to be in Airworthy condition, and approved to return to service.

Dustin E. Pour  
 A&P27132391A

*Dustin E. Pour*





February 05, 2021  
N 442Z  
Tach 761.6  
ATSN 761.6

WO 203936  
SN 40.1124  
Hobbs 0955.9

...RING RECORD  
...ANY LINES AS REQUIRED FOR

Perform annual inspection on this airframe using Appendix D, Part 43 as a guide. FAR 91-207(c) ELT battery expires **April 2025**. FAR 91-207(d)(1-4) ELT functional test preformed satisfactory, next due **February 2022**. FAR 91-411 and 91-413 transponder, altimeter, pitot/static check and test next due **February 2023**. AD 2020-14-06 fuel tank connection hose does not apply by production date, nfa. AD 2015-19-07 FI lines & clamps cw by inspection found no defect noted, next due **861.6 tis**. AD 2009-10-04 NLG leg crack cw by inspection found no defect, next due **02/2022 or 961.6 tis**. Secured loose passenger dome light. Lube all flight control surfaces, pullies & springs. Inflate tires per POH and repacked wheel bearings. Serviced battery. This aircraft is in compliance with all current and applicable ADs thru 2021-05

I certify this Aircraft has been inspected in accordance with Annual inspection, and it was found to be in Airworthy condition.

Dustin E. Pour  
A&P2713239IA



Date 2/19/2021  
WO# 604148  
N442Z  
TT  
Tach 762.3

I certify that the altimeter and static system tests required by 14 CFR part 91, § 91.411 and transponder tests, including data correspondence, required by § 91.413, have been performed and found to comply with 14 CFR part 43, appendices E and F. Tested to 20K FT

Altimeter model GDU-1040

Serial No. 106002991

Transponder model GTX-345R

Serial No. 3EH400825

Encoder model G1000

Serial No. n/a

FAA CRS #XW2R308L

Bill DeBarmore



March 11, 2022  
N 442Z  
Tach 775.2  
ATSN 775.2

WO 202272  
SN 40.1124  
Hobbs 973.4

Perform annual inspection on this aircraft using Diamond DA 40 Maintenance checklist as a guide per Appendix D, Part 43. FAR 91-207(c) ELT battery expires **November 2025**. FAR 91-207(d)(1-4) ELT functional test preformed satisfactory, next due **March 2023**. FAR 91-411 and 91-413 transponder, altimeter, pitot/static check and test next due **February 2023**. AD 2015-19-07 FI lines & clamps cw by inspection found no defect noted, next due **875.2 tis**. AD 2009-10-04 NLG leg crack cw by inspection found no fault, next due **03/10/2023 or 975.2 tis**. Removed and replaced defective induction air filter with new p/n FR-08504 and secured with new clamp. Removed exhaust heat to cabin scat hose replaced with new double sided scat hose. Lube all flight control surfaces, pullies & springs. Inflate tires per POH and repacked wheel bearings. Serviced battery cells and charged. Installed battery and secured positive terminal end with new boot. This aircraft is in compliance with all current and applicable ADs thru 2022-06.

I certify this Aircraft has been inspected in accordance with Annual inspection, and it was found to be in Airworthy condition.

Dustin E. Pour  
A&P2713239IA

CARRIED FORWARD



MAKE: Diamond  
MODEL: DA40  
S/N: 40.1124  
REG. NO: N442Z  
WORK ORDER: 4217

**Aero City Maintenance**  
2901 East Spring St. Suite A  
Long Beach, CA 90806  
Phone: 562-912-4263

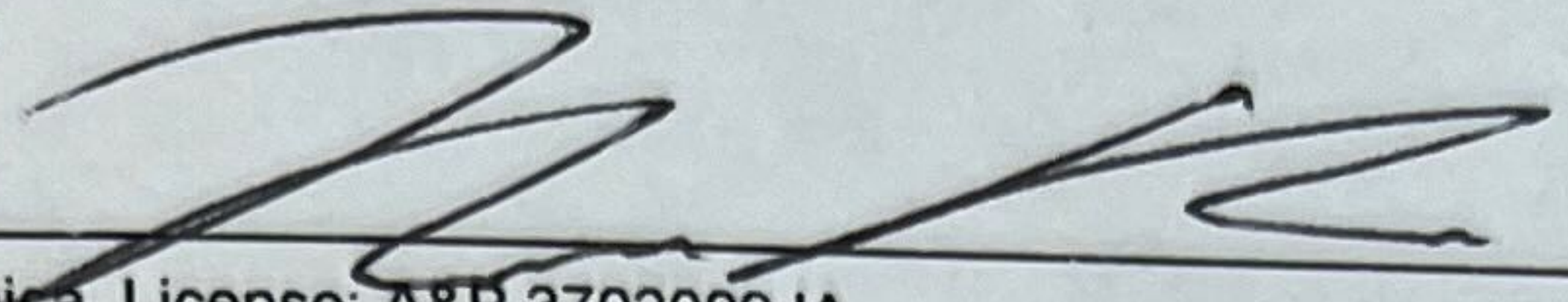
DATE: 4/6/2022  
A/C TSN: 782.2  
TACH: 782.2

**Airframe Entries**

Cleaned and adjusted elevator trim rod as required due to trim wheel stiff and bouncing back using Diamond DA40-180 AMM CH.27 as a guide. Operation check good.... Secured engine alternate air internal screen, and performed rigging as required using Diamond DA40-180 AMM Ch.71 as a guide. Operation check good.... Secured alternate air cable due to chaffing using Diamond DA40-180 AMM Ch. 71 as a guide.... Replaced NLG strut pucks PN: DIN9835-63x50 (x5) PN: DIN9835-32x40 (x1) due to wear using Diamond DA40-180 AMM Ch.32 as a guide. Operation check good.... Adjusted NLG wheel fork tension as required per customer request using Diamond DA40-180 AMM Ch. 32 as a guide.... Inspected/adjusted rudder rigging as required per customer request using Diamond DA40-180 AMM Ch.27 as a guide. Operation check good.

Technicians Who Worked On The Items Listed Above:  
Andres Guzman, Michael Moreno, Richard Formica

DATE: 4/6/2022

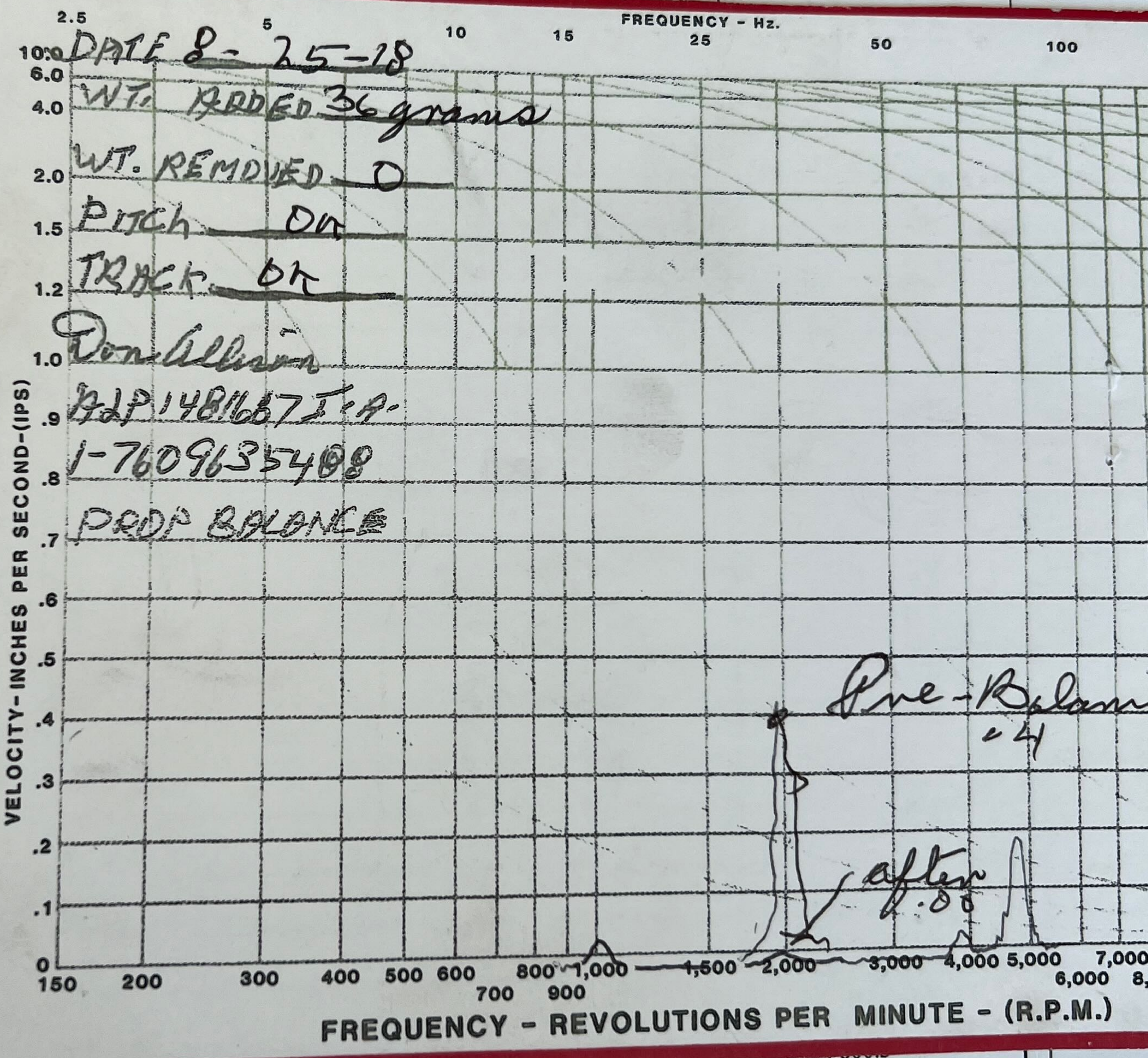
SIGNED:   
Richard Formica, License: A&P 3702089 IA

Work Order: 4217

Printed by EBis 3 (datcomedia.com)

LICENCE NUMBER

CHADWICK HELMUTH 4601 No. Arden Dr. El Monte CA 91731 Card # 7223  
Phone (818) 575-6161

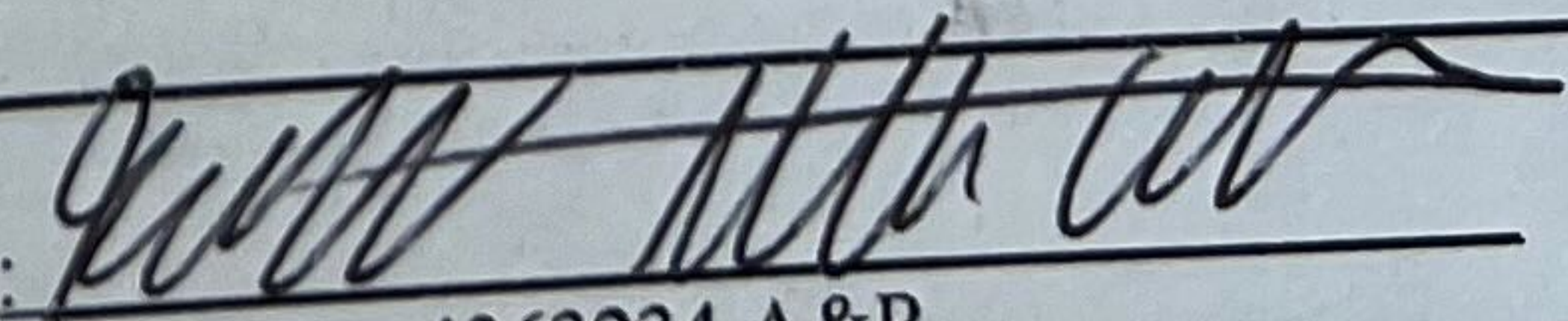


Model: DA-40  
S/N: 40.1124  
Reg# N442Z

FLT Academy

AFTT: 800.3  
Hobbs: 1007.3

Bled both left and right bakes with MIL-5606-A I/A/W DA 40 AMM Section 32-40-00. Replaced missing screws in nose fairing

Mechanic:   
Brock Andrew Gouett 4363234 A&P

Date: Aug 3, 2022



Model: DA40 S/N: 40.1124 Reg# N442Z	<b>FLT Academy</b> 1652W 1940 S Woods Cross, UT 84087	AFTT:813.8
Replaced RT main gear tires with new 15x6.00x6 cleaned and regreased bearings, reinstalled tire assy brake assty OPS check normal.		
Date: 20OCT2022		Mechanic: <i>[Signature]</i> Reynold Lewis Morris JR 574521468 A&P

**ARAPAHOE AERO AVIONICS**  
**12780 E Control Tower Road Englewood, CO 80112 303.799.6289**  
**N442Z Diamond DA40 SN: 40.1124 ACTT: 828.5** **April 6, 2023**

Garmin GDC-74A 011-00882-10 SN: 20610796 has been tested per FAR 91.411 Part 43 Appendix E and Garmin Service Advisory 0606 to 20K'. See our 8130-3 issued this date. United Altimeter 5934PD-3 SN: 463030 has been tested and inspected per FAR 91.411 Part 43 Appendix E to 20K' See our 8130-3 issued this date. Adjusted BARO setting per United Instruments Model 5934 Series Manual TM-5934 dated March 2010. Aircraft failed pitot and static system leak checks. Found multiple static fittings lose at the ADC 1, Stby Airspeed, and Stby Altimeter. Removed fittings, applied teflon tape, and reinstalled. Removed pitot fittings from the Stby Airspeed and ADC, applied teflon tape and reinstalled. No further leaks noted. Aircraft Pitot and Static systems have been tested per FAR Part 43 Appendix E. Aircraft Static system was tested to 7000' with <20' leak per minute. Pitot system was tested to 150 kts with no leaks. The ATC Transponder test and inspection required by FAR 91.413 was performed on the transponder and found to comply with FAR Part 43 Appendix F. Details of this test and inspection are on file at this Repair Station.

The aircraft and/or component identified above has been inspected in accordance with the current maintenance rules of the Federal Aviation Regulations and is approved for return to service.

FAA CRS ZL6R006Y Signed: *[Signature]* **AV-04872**

**ARAPAHOE AERO**  
**12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386**

**N442Z Diamond DA40 S/N: 40.1124 Airframe Total Time: 828.5**  
**6 April 2023 Tach Time: 828.5**

**100 Hour/Annual Inspection** completed this date using the Diamond Maintenance Manual Inspection Form for Model DA40 as a guide. Inspected / Tested Artex ME 406 ELT system according to applicable Aircraft and ELT manufacturer's instructions and found that it meets the requirement of section 91.207(d). No defect noted, Beacon Test Report No. BT100AVtriple/3195/N442Z, dated 3-29-23 on file. **ELT battery due November 2025.** Installed a new ELT remote switch assembly P/N: 455-0023, **ELT remote battery due December 2027.** Installed new AMSafe EMA controller P/N: 20902-001, S/N: A10JAN23, front seat inflators P/N: 512847-401, S/N: 27DH047D1099, 27DH047D1097. **Next EMA controller replacement due January 2030. Next inflator replacement due January 2033.** Complied with **Garmin G1000 (ICA)** by replacing (5) lighting protection 3.2 Amp slow-blow fuses P/N: MDL-3-2, operational check good. **Next fuse replacement due April 2025.** Performed **Garmin G1000 (ICA)** flap-in-motion discrete function operational check, no defects noted. **Next discrete flap-in-motion check due March 2024.** Installed rebuilt **CO detector** P/N: 452-201-010RX, S/N: 92850, rebuilt by CO Guardian, LLC., CRS # PT575NM, reference 8130-3 dated 8/11/2022, WO # 8071. **Next CO detector replacement due August 2029.** Installed a new fuse for the instrument panel power outlet. Removed Dukes Electric fuel pump P/N: 5100-00-9, S/N: 10744B and installed a new Weldon electric fuel pump P/N: 18002-B, S/N: 240819 with wiring kit 18002-B-KIT. Leak check and operational check good. Sealed around lights in the aft overhead panel. Cleaned a lubricated canopy seals and latches. Installed a new strut for the rear door. Installed a new positive terminal end for the alternator. Tightened ignition switch in panel. Replaced missing hardware for the nose wheel faring. Installed a new emergency battery. Emergency battery next due April 2025. Adjusted ruder cable tensions. Completed 100 hour / annual lubrication. Installed new left and right wheel bearings and races. Installed one new nose wheel bearing and race. Serviced wheel bearings with Mobil 100 grease. Resealed the left brake caliper and bled the left brake. Installed new right brake linings. Conditioned the right brake per Cleveland service instructions. Completed small composite repair on the right main wheel faring. Cleaned and resealed the fuel strainers. Checked and charged the aircraft battery. Wiped down and inspected engine cowlings. AD's checked through Biweekly 2023-07. Post inspection ground run-up and systems operational check good. Cleaned aircraft exterior, cleaned windscreen and cabin windows and vacuumed seats and interior. **I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.**

*[Signature]*  
**Kevin Mosher A&P 3443784 IA w/o 44175**





# ARLIN'S AIRCRAFT SERVICE, INC.

200 Wings Way, Belgrade, MT 59714 (406)-898-2012  
CRS QM5R150N (KBZN)

DATE	REGISTRATION	SERIAL #	TAC
1 AUG 2023	N442Z	40.1124	884.8

Installed an overhauled alternator, P/N ALU-8521R, S/N H-V072089. Ops check good, See Form 8130-3 for details.

*Alan C. Wass*  
Alan C. Wass A&P 2386273

## ARAPAHOE AERO


12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

**N442Z Diamond DA40 S/N: 40.1124 Airframe Total Time: 916.4**

**23 May 2024 Tach Time: 916.4**

**100 Hour/Annual Inspection** completed this date using the Diamond Maintenance Manual Inspection Form for Model DA40 as a guide. Inspected / Tested Artex ME 406 ELT system according to applicable Aircraft and ELT manufacturer's instructions and found that it meets the requirement of section 91.207(d). No defect noted, Beacon Test Report No. BT100AVtriple/3195/N442Z, dated 04/29/2024 on file. **ELT battery due November 2025. ELT remote battery due December 2027.** Installed new left brake linings P/N: 066-14100. Conditioned the left brake per Cleveland service instructions. Serviced wheel bearings with Mobil 100 grease. Cleaned and resealed the fuel strainers. Checked and charged the aircraft battery. Installed wheel fairings and replaced missing hardware. Inspected and serviced induction air filter. Repaired rudder bellcrank ground strap. Installed new nose gear strut P/N: D41-3223-10-00\_2-MOD, S/N: CS0732185-10000. The nose strut was replaced because of two corrosion pits on the spindle part of the strut beyond Diamond limit. Complied with **Power Flow Systems (Heat Exchanger & Exhaust Inspection)**. ICA with reference to Section 5 of Power Flow Manual. No defects noted. **Next inspection due May 2025. Performed 12 Year Major Structural Inspection and completed 2000 Hour inspection items (Airworthiness Limitation)**, I/A/W DA 40 AMM Chapter 4 and 5. No defects noted. Performed **Garmin G1000 (ICA) flap-in-motion discrete function operational check**, no defects noted. **Next discrete flap-in-motion check due May 2026. CAT AD 2023-09-09 (Spot Welded V-Band Clamps) N/A** by part not installed. AD's checked through Biweekly 2024-10. Post inspection ground run-up and systems operational check good. Cleaned aircraft exterior, cleaned windscreen and cabin windows and vacuumed seats and interior. **I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.**

**Kevin Mosher A&P 3443784 IA w/o 45157**

Reg #	N442Z	AFTT:	951.3		SAS Maintenance 3909 Airport Road. Hanger. S-481 Ogden, Utah. 84405.
Make	Diamond	Tach:	951.3		
Model	DA-40	Hobbs:	N/A		
S/N #	40.1124	W/O #	188		
Main aircraft battery weak. Removed G-243. Serviced and installed new Gill G-243 S/N G03225337.					
Signature	Michael J. Vandehei	<i>Michael J. Vandehei</i>			7/30/2024
Certificate #	3434874 AP/IA				Date
The Aircraft and / or components identified above were inspected and / or repaired in accordance with Title 14 Code of Federal Regulations, Part 43 and is approved for return to service in respect to that work performed.					



## AIRFRAME LOG

1. Nationality and Registration:
2. Manufacturer's Designation:
3. Record of:
  - a. Engine Installations
  - b. Propeller Installations
  - c. Airworthiness Directives (A/D)
  - d. Service Bulletins (S/B)
  - e. Special Inspections (S/I)
  - f. Modifications (MODS)

C-GRW

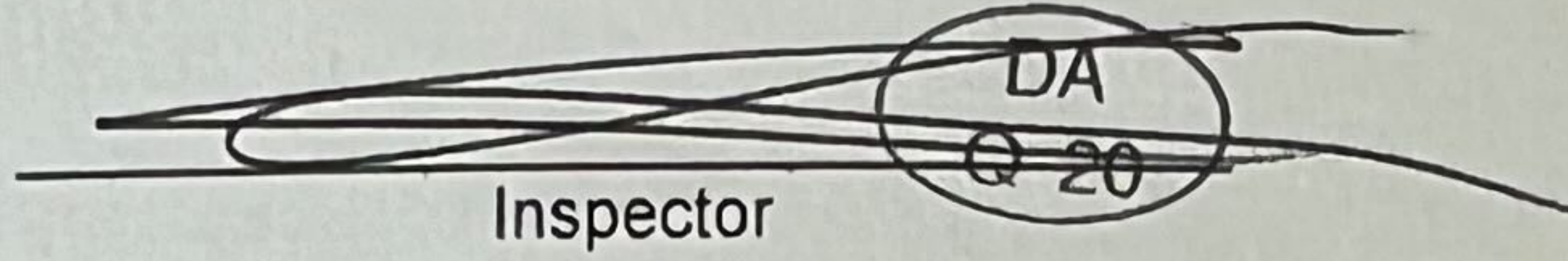
DA 40



DIAMOND AIRCRAFT INDUSTRIES INC.  
D.O.T. APPROVED MANUFACTURER #161-93

Registration: C-GRWR  
AC Serial Number: 40.1124  
Engine Serial Number: L-35554-51E  
Prop Serial Number: NS496B  
Airframe Total Time: 5.3 hrs

- Lycoming IO-360-M1A, S/N: L-35554-51E installed
- Hartzell HC-C2YR-1N/N7605, S/N: NS496B installed IAW STC No. SA02476CH-D

  
Inspector

NOV 03 2011  
date

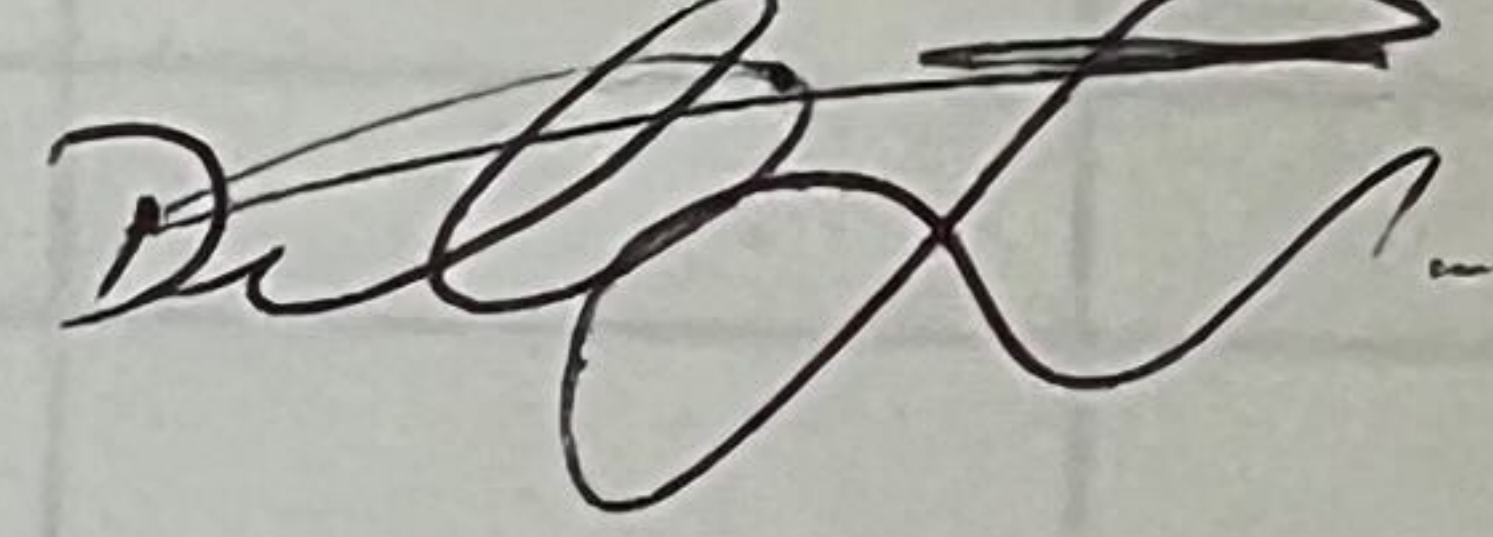
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Date 03/05/2020 WO 203584  
N 442Z SN 40.1124  
HC-C2YR-1N/N7605 SN NS496  
Tach 747.8 Hobbs 0939.6  
PTSN 747.8

Perform annual inspection on this propeller iaw Hartzell Propeller Service Manual & Checklist as a guide. Removed spinner and inspect the hub, the mounting bolts and bulkheads, dressed blades as necessary, cleaned and installed spinner. This aircraft is in compliance with all current and applicable ADs and printed records placed in aircraft logbook folder.

I certify this Propeller has been inspected in accordance with Annual inspection and was found to be in Airworthy condition, and approved for return to service.

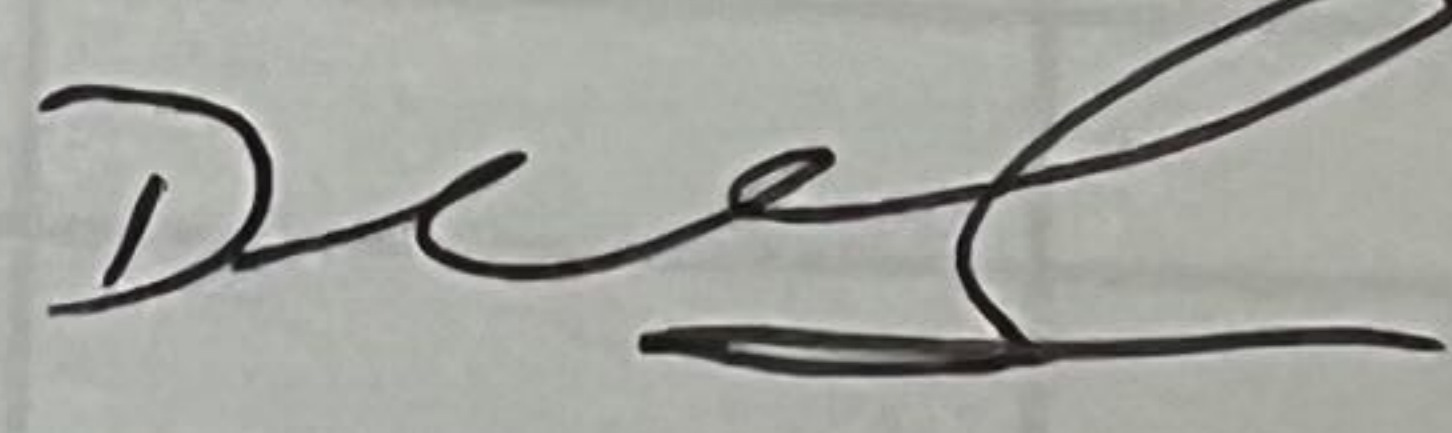
Dustin E. Pour   
A&P2713239IA



February 05, 2021 WO 203936  
N 442Z SN 40.1124  
HC-C2YR-1N/N7605 SN NS496  
Tach 761.6 Hobbs 0955.9  
PTSN 761.6

Perform annual inspection on this propeller using Appendix D, Part 43 as a guide. Removed spinner and inspect the hub, the mounting bolts, and bulkheads. Dressed blades as necessary. Cleaned and installed spinner. This propeller is in compliance with all current and applicable ADs thru 2021-05

I certify this Propeller has been inspected in accordance with Annual inspection and was found to be in Airworthy condition.

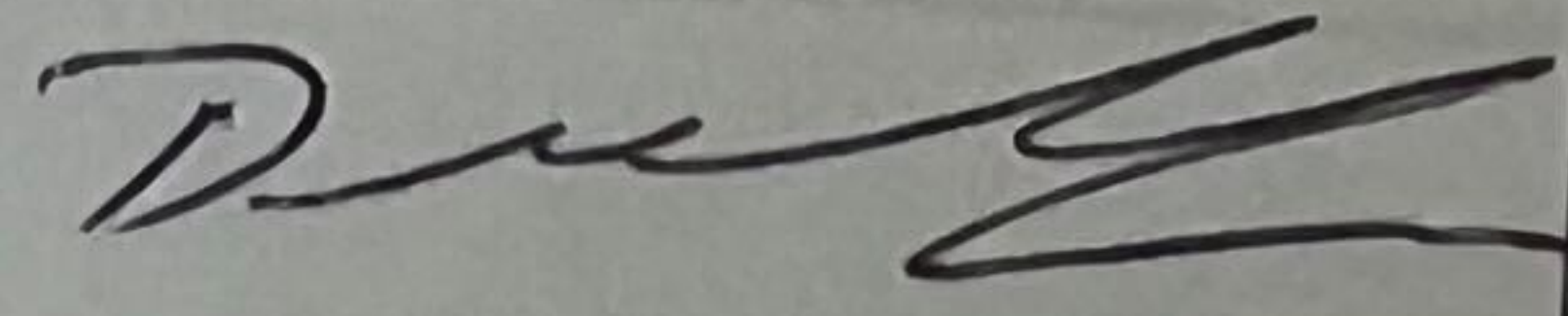
Dustin E. Pour   
A&P2713239IA



March 11, 2022 WO 202272  
N 442Z SN 40.1124  
HC-C2YR-1N/N7605 SN NS496  
Tach 775.2 Hobbs 973.4  
PTSN 775.2

Perform annual inspection on this propeller using Diamond DA 40 Maintenance checklist as a guide per Appendix D, Part 43. Removed spinner and inspect the hub, the mounting bolts, and bulkheads. Lube prop hub with Aeroshell #6 grease. Dressed blades as necessary. Cleaned and installed spinner. This propeller is in compliance with all current and applicable ADs thru 2022-06.

I certify this Propeller has been inspected in accordance with Annual inspection and was found to be in Airworthy condition.

Dustin E. Pour   
A&P2713239IA







RECORD OF AIRFRAME

AIRWORTHINESS DIRECTIVES (A/D), SERVICE BULLETINS (S/B)

DATE	A/D, S/B, S/I, MODS	DETAILS OF
JUL 1 3 2013	EASA 2013-0020 R2	Seat Belts N/A
JUL 1 6 2013	EASA 2013-0014S	Aft Spar N/A
JUL 1 6 2013	CFR 90-03 R2	Exhaust Cabin Heater By S/N
JUL 1 6 2013	2011-26-04	LycSB 34ZF Fuel Injection
JUL 1 6 2013	2012-03-06	Fuel Servo N/A
JUL 1 6 2013	2012-19-01	SB 569A N/A By S/N



Date 09/27/2017  
 WO# 603730  
 N442Z  
 TT  
 Tach 821.7

REMOVED GARMIN GTX-33 TRANSPONDER

INSTALLED AND TESTED GARMIN GTX-345R ADS-B COMPLIANT TRANSPONDER IN ACCORDANCE WITH GARMIN INSTALL MANUAL P/N 190-01499-02 REV 3 DATED 02/2016.

THIS INSTALLATION IS A FOLLOW ON TO STC # SA0171WI. THE INSTALLED ADS-B OUT SYSTEM WAS SHOWN TO MEET THE EQUIPMENT PERFORMANCE REQUIREMENTS OF 14 CFR PART 91.227.

*William DeBarmore*

FAA CRS #XW2R308L  
 William DeBarmore



# SPECIAL INSPECTIONS (S/I) AND MODIFICATIONS (MODS)

(S/B)

S/N

Level

WORK OR INSPECTION PERFORMED

SIGNATURE

LICENCE NUMBER

NO record of repairs

*[Signature]*

AUM 1

*[Signature]*

AUM 1

*[Signature]*

AUM 1

*[Signature]*

AUM 1

*[Signature]*

AUM 1

*[Signature]*

AUM

and clamping



Authority/Country  
 FAA/UNITED STATES

**AUTHORIZED RELEASE CERTIFICATE**  
 FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG

3. FORM TRACKING NUMBER

DA  
 MS-403804  
 L-35554-51E

SEP 28 2011  
 RECEIVED

Relaolsyo

4. ORGANIZATION NAME AND ADDRESS  
 Lycoming Engines, 652 Oliver St., Williamsport, PA 17701

PRODUCTION CERTIFICATE #3

5. WORK ORDER, CONTRACT, OR INVOICE NUMBER:  
 MS-403804

6. ITEM	7. DESCRIPTION	8. PART NUMBER	9. ELIGIBILITY *	10. QTY.	11. SERIAL/BATCH NO.	12. STATUS/WORK
1.1	Aircraft Engine	ENPL-RT10051	N/A	1	L-35554-51E	NEW

13. REMARKS ENGINE MODEL: IO-360-M1A  
 No Life Limited Parts

Export Airworthiness Approval: This part meets the special requirements of Canada  
 Limited life parts must be accompanied by maintenance history including time/total cycles/time since new.

14. Certifies the items identified above were manufactured in conformity to:  
 X Approved design data and are in a condition for safe operation.  
 — Non-approved design data specified in Block 13.

19.  14CFR 43.9 Return to Service  
 Other regulation 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. In respect to that work, the items are approved for return to service.

15. Authorized Signature: *[Signature]*

16. Approval/Authorization No.: ODA830878-NE

20. Authorized Signature:

21. Approval/Cert No:

17. Name (Typed or Printed): F. H. HILL JR

18. Date (m/d/y): SEP-27-2011

22. Name (Typed or Printed):

23. Date (m/d/y):

It is important to understand that the existence of this Document alone, does not automatically constitute authority to install the part/component/assembly.

**USER/INSTALLER RESPONSIBILITIES**

Where the user/installer 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

Statements in block 14 and 19 do not constitute installation certification. In all cases maintenance records must contain an installation certification issued in accordance with the 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.



# **AIRCRAFT TECHNICAL LOGS**

**Section 3. ENGINE**



## ENGINE LOG

- |                                  |             |
|----------------------------------|-------------|
| 1. Make:                         | Lycoming    |
| 2. Model:                        | IO-360-M1A  |
| 3. Specification:                | 1E10        |
| 4. Manufacturer's Serial Number: | L-35554-51E |
| 5. Date of Manufacture:          | Sept 2011   |
| 6. Aircraft Inspection Cycle:    |             |

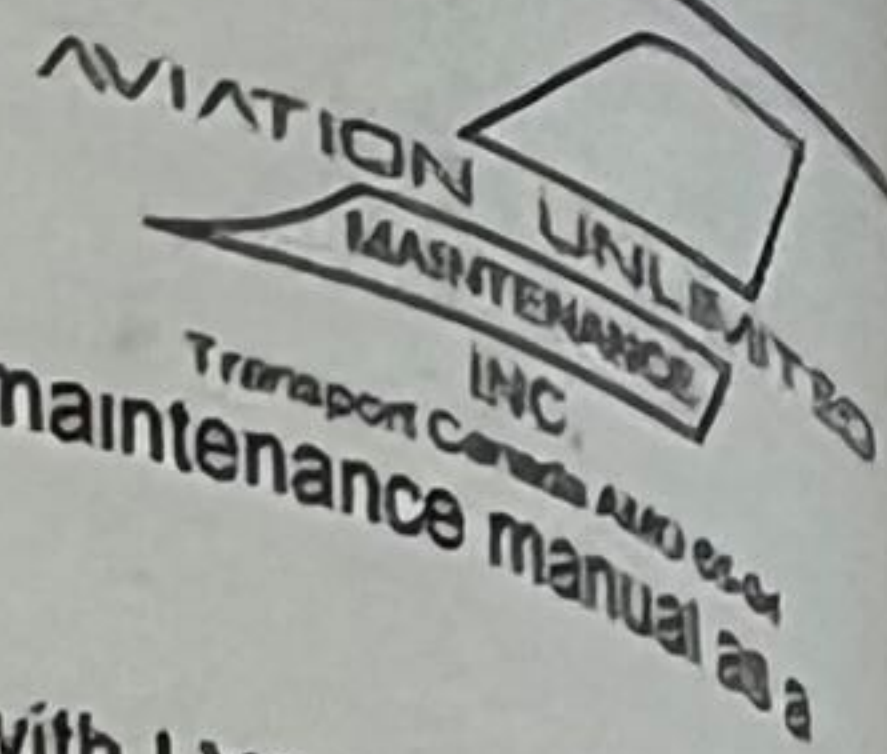


BROUGHT FORWARD →

187 4

1 6 2013

Date: July 16, 2013  
 Type: Diamond DA40  
 TTAF: 187.4hrs Garmin Hobbs  
 Engine  
 Registration: N416PE  
 S/N: 40.1124



A 100hr inspection and servicing has been performed using the manufacturer's maintenance manual as a guide.  
 A Motostat was performed, 76/80 76/80 78/80 78/80  
 Changed oil & filter, inspected oil filter element & suction screen in accordance with LYC SB SB480E - no contaminants found. CH48110-1 filter installed. Added Aeroshell W100+ oil and CamGuard additive.  
 AD CF90-03R2 Exhaust type cabin heater - completed, OK at this time.  
 AD 2011-26-04 LYC SB342F Fuel injection lines & clamping - completed, OK at this time.  
 AD 2012-03-06 Failed fuel servo diaphragm - N/A, no record of replacement.  
 AD 2012-19-01 Lycoming engines failure of crankshaft - N/A by S/N, not on list.  
 Aircraft ground run & leak checked OK.

Inspection findings/snags/rectifications:

- Spark plug nuts corroding - cleaned nuts.
- Oil filler neck loose - tightened filler neck.
- Fuel injector nozzle line nut corroding - cleaned nut.
- Powerflow Exhaust inspection completed, exhaust pipe internal core/muffler material eroded & 1/4 missing - replaced muffler core p/n PFS-8016 kit muffler insert installed.
- Exhaust pipe support hanger torn/tearing - replaced hanger.
- Rocker covers leaking oil - replaced rocker cover gaskets p/n ADS75906-S installed.
- Mag timing checked, LH mag at 25 1/2°, RH magneto timing 28-29° - adjusted to 25° BTC.

THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.

AUM 1

Primeplanes Aircraft Services Inc.

240 Aviation Drive North Suite 102  
 Naples, Florida 34104 ph. 239-659-4005



REG. **N416PE** TYPE **IO-360-M1A** TACH **220.9** ETT **220.9**

Performed 100-hour inspection in accordance with FAR Part 43 Appendix D, using Diamond Aircraft DA 40 Series AMM, Maintenance checklist DA40 with Lycoming IO-360 M1A Engine, 05-28-00 as a reference; Drained oil, performed differential compression check; Cyl#1- 75/80; Cyl#2- 75/80; Cyl#3- 78/80; Cyl#4- 78/80; Removed oil filter; cut and inspected internal element for metal particulates; None found; Installed new Champion CH48110-1 filter; Removed oil sump suction screen, inspected, cleaned, and reinstalled using new MS35769-21 crush gasket and saftied; Serviced engine with 8 quarts of Aeroshell 15w-50 oil; Removed cleaned, gapped, tested, rotated and reinstalled sparkplugs to 32 ft/lbs torque; Serviced fuel system as required; Removed exhaust, inspected in accordance with Power Flow Systems Instructions for Continued Airworthiness for kit No. PFS-15102, Doc# PFS-15520-00 Rev E, Paragraphs 5.6.1- 5.6.6; Reinstalled exhaust with new gaskets, Lycoming P/N 77611, and torqued to 110 in/lbs; Removed defective right magneto, Slick P/N 4370, S/N 11101368 due to cracked case; Installed new magneto, Slick P/N 4370, S/N 13091391; Set both magneto timing per engine dataplate; Performed ignition switch ops check; No faults detected; Serviced fuel gascolator as required; Performed high tension leakage test of all ignition leads, no faults detected; C/W AD2011--26-04 by visual inspection; No discrepancies noted at this time; Next due at Tach 320.9; All AD's research through 10/29/2013; Performed run-up/ leak check/ operational check of engine parameters; No discrepancies noted; Retorqued exhaust mounts to 110 in/lbs post run-up. I certify that this engine was inspected in accordance with a 100-hour inspection and has been found to be in an airworthy condition. ---END---

Signature Jeremy R. Hughes A&P 3593175

Date 10/29/2013

THIS PAGE

CARRIED FORWARD



# MAINTENANCE

SIGNATURE

LICENCE NUMBER

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

N416PE a Diamond DA40 S/N 40.1124 Date: 10-30-2013 Tach 220.9 TTAF 220.9  
 Serviced engine, Oil Change, Clean Gap & Test spark plugs, Check Timing  
 Compression test 1) 75 2) 75 3) 78 4) 78 all over 80 PSI.  
 Inspect Oil filter Ok, Install New 8 qt. 15W50 Aeroshell oil; Run up and leek check Ok  
 Checked AD's through Issue 2013-21-02 No new noted,  
 AD 2011-26-04 Fuel Injector Lines by visually inspection no defects noted next due Tach 320.9  
 I certify that this Engine, propeller and Accrues has been inspected IAW an Annual inspection IAW FAR  
 43 Apex D and has been determined to be in an airworthy condition at this time.  
 A&P 3496744 IA John Swasey *[Signature]*

N416PE, Diamond DA40-FP, S/N 40.FC1124 Date: 12-19-2014 Tach 298.5 TTAF 298.5 Hobbs 387.1  
 Checked AD's through Issue 2014-26-53 No new noted,  
 AD 2011-26-04 Fuel Injector Lines by visually inspection no defects noted next due Tach 398.5  
 I certify that this Engine, propeller and Accrues has been inspected IAW an Annual inspection IAW  
 FAR 43 Apex D and has been determined to be in an airworthy condition at this time.  
 A&P 3496744 IA John Swasey *[Signature]*



APG Aviation - Maintenance & Repair  
 28000 Airport Rd. A-17 Punta Gorda, FL 33982  
 Tel: 941-575-8605 · Fax: 941-575-8734 · qa@avionix.com

12-10-2015 N416PE DA-40 SN 40.1124 HM 458.3 ENG TACH 351.2

CW THE ANNUAL INSPECTION CHECKLIST. COMPRESSIONS OVER 80: 1)78 2)76  
 3)78 4)76. CHANGED OIL AND FILTER. SERVICED WITH AEROSHELL 15W-50  
 AND FILTER AA48110-2. CUT AND INSPECT FILTER. CLEANED, GAPPED, AND  
 ROTATED SPARK PLUGS. INSPECT MAGNETO TO ENGINE TIMING. SECURED OIL  
 FILLER NECK. REPLACED INDUCTION AIR FILTER PN FR-08504. REPLACED  
 MISSING ENGINE BAFFLE HARDWARE AS NEEDED. RETORQUED VALVE COVER  
 HARDWARE. CW AD 15-19-07 BY INSPECTION. OPERATIONAL CHECK  
 SATISFACTORY.

*[Signature]*  
 MATTHEW SOLINSKY  
 3443900 AP

TTE 351.2

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IAW AN ANNUAL  
 INSPECTION AS PER FAR PART 43 APP D AND WAS FOUND TO BE IN AN  
 AIRWORTHY CONDITION. AD'S THRU REV 2015-24.

JOHN McCORMACK  
 47580823 IA *[Signature]*

## General

3/18/2016

Tach Time: 650.6  
 Total Time: 650.6  
 TSMOH: 650.6

Removed and replaced oil filter P/N A48110-2 serviced with  
 7 QT PHILLIPS 66 X/C 20W50.

CW AD2015-19-07 per 342G next due Tach time 750.6.

CW Diamond 100 hour engine checklist.

David Austin A&P 3635382 *[Signature]*



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


DATE	TIME RUN		TIME SINCE OVERHAUL	
	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD →				

Hobbs time: 516.2

6/25/2016

Removed and replaced starter contactor P/N 26.58.09.  
Serviced oil with 7 QT Phillips 66 X/C 20W50 replaced oil filter A48110-2.  
CW AD 2015-19-17 per SB 342G next due tach time 616.2.  
David Austin A&P 3635382 *[Signature]*

ENGINE MODEL: IO-360-M1A  
ENGINE S/N: L-35554-51E  
REG. NO: 442Z  
WORK ORDER: 7221-08-2016



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

DATE: 8/25/2016  
A/C TSN: 542.4  
ENG TT: 542.4  
TACH: 542.4

**Engine Entries**

(3) PERFORMED AIRCRAFT EVALUATION AS REQUESTED BY CUSTOMER. ENG CYL COMPRESSIONS: 70-76-74-75/80. REMOVED OIL FILTER AND INSPECTED FOR METAL, NO DEFECTS FOUND. INSTALLED NEW OIL FILTER P/N CH48110-1.... (6) C/W LYCOMING SB 612 OIL DIPSTICK REPLACEMENT NEW P/N LW-14760.... (7) C/W LYCOMING SB 621B ENG DRIVEN FUEL PUMP INSPECTION. N/A BY MFR DATE CODE AND P/N.... (12) REMOVED AND RE INSTALLED LEFT MAGNETO MODEL 4347, S/N 15090431 AFTER 500 HOUR INSPECTION, FROM QUALITY AIRCRAFT ACCESSORIES (9QFR310C), AND TIMED LH AND RH MAGNETOS TO ENGINE IAW LYCOMING IO-360-M1A MM CH 74-10-00.

DATE: 8/25/2016 SIGNED: *[Signature]*  
EMMANUEL VICIOSO  
CRS 9PRR402B

Work Order: 7221-08-2016  
Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: IO-360-M1A  
ENGINE S/N: L-35554-51E  
REG. NO: 442Z  
WORK ORDER: 7257-08-2016



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

DATE: 8/31/2016  
A/C TSN: 544.5  
ENG TT: 544.5  
TACH: 544.5

**Engine Entries**

(2) ADJUSTED ENG IDLE SPEED IAW DA40 M/M CH 71-00-00. ENGINE RUN CHECKED GOOD.

DATE: 8/31/2016 SIGNED: *[Signature]*  
EMMANUEL VICIOSO  
CRS 9PRR402B

Work Order: 7257-08-2016  
Printed by EBis 3 (datcomedia.com)



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

ENGINE MODEL:  
IO-360-M1A  
ENGINE S/N: L-35554-51E  
REG. NO: 4427  
WORK ORDER:  
7311-10-2016



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

DATE: 10/14/2016  
A/C TSN: 544.5  
ENG TT: 544.5  
TACH: 544.5

Engine Entries

(3) COMPLETED WITH ANNUAL INSPECTION ON THIS ENGINE IAW FAR 43 APPENDIX D, USING DA40-180 MM INSPECTION GUIDE. CHANGED ENGINE OIL. SERVICED ENGINE WITH 8 QTS AEROSHELL 10CW PLUS OIL. OIL SUMP SCREEN WERE CHECKED FOR CONTAMINATION. NONE FOUND. CLEANED, REGAPPED, AND CHECKED SPARK PLUGS. PERFORMED COMPRESSION CHECK: 78, 78, 78, 78/80. WORK PERFORMED IAW DA40-180 M/M. ENGINE WAS GROUND RUN AND LEAK CHECKED OK. ADS CHECKED THROUGH CURRENT ON ATP.... (6) C/W AD 2015-19-07 FUEL INJECTOR LINE INSPECTION. NO DEFECTS FOUND AT THIS TIME.... (11) ADJUSTED ENGINE MIXTURE RISE TO SPECS IAW DA40-180 M/M CH 71-00. OPS CHECK GOOD.

I CERTIFY THIS AIRFRAME, ENGINE, OR PROPELLER HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

DATE: 10/14/2016

SIGNED:

Work Order: 7311-10-2016

SAMUEL TAVAREZ JR.  
CRS# 9PRR402B

Printed by EBis 3 (datcomedia.com)



10000 Airpark Way, Pacoima CA 91331 USA  
Telephone 818-896-6442, 800-828-6756 (toll free)  
Fax 818-896-9541 vista@vistaviation.com

Date 04-07-17  
N442Z  
Tach 0618.2

W/O 203227  
SN 40.1124  
Hobbs 0784.0

Removed starter Model: 149-24LS SN: F4L-271203 and installed starter Model: 149-24LS SN: H-R032174.  
Op checked good on ground.


I certify that this engine has been inspected IAW Diamond M/M and was found in airworthy condition, and is approved for return to service at this time.

Terry Southern  
A&P 3599829 IA



DATE	TIME RUN		OVERHAUL	
	HRS.	MIN.	HRS.	MIN.

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

BROUGHT FORWARD 

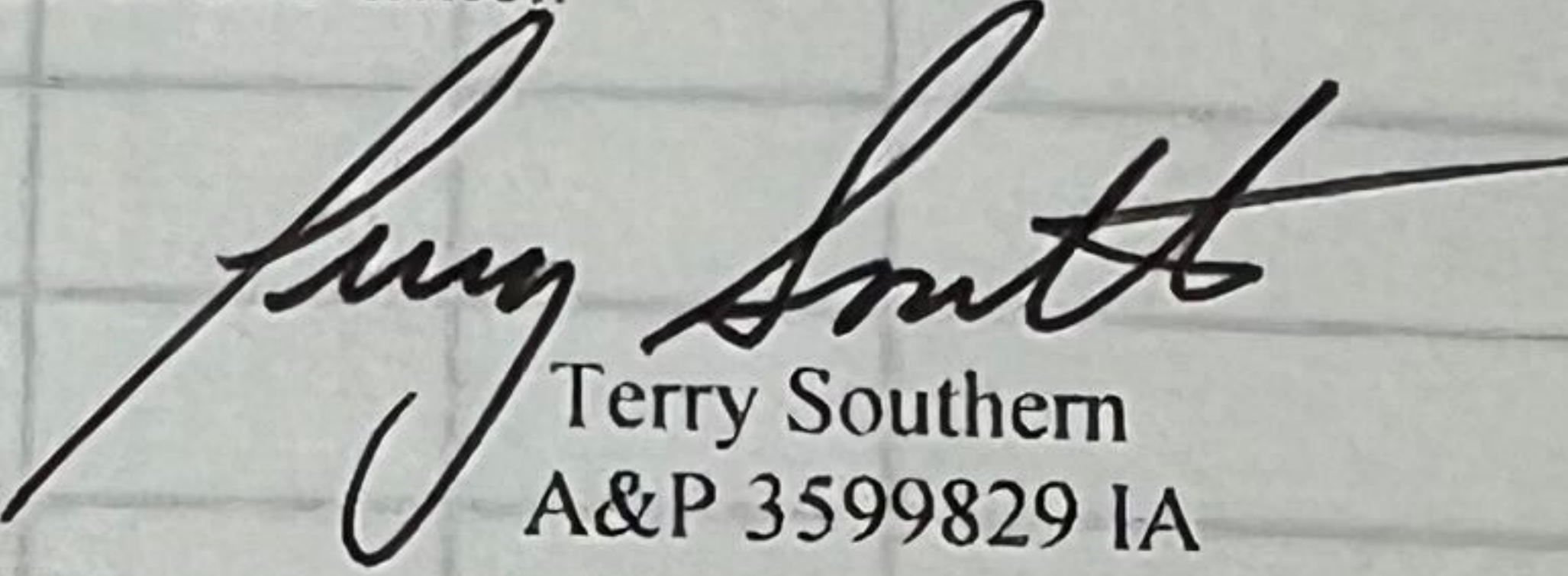


**VISTA**  
AVIATION INC.  
10000 Airpark Way, Pacoima, CA 91331 USA  
telephone 818-896-6442, 800-828-6756 (toll free)  
fax 818-896-9541 vista@vistaaviation.com

Date 08-02-17  
N 442Z  
Tach 651.6  
W/O 203345  
SN 40.1124  
Hobbs 821.5

Changed engine oil and filter, serviced with filter CH48110-1 and 8 qts Aeroshell w100. Oil sample submitted for analysis.

I certify that this engine was serviced IAW Diamond M/M and was found to be in airworthy condition, and is approved for return to service at this time.

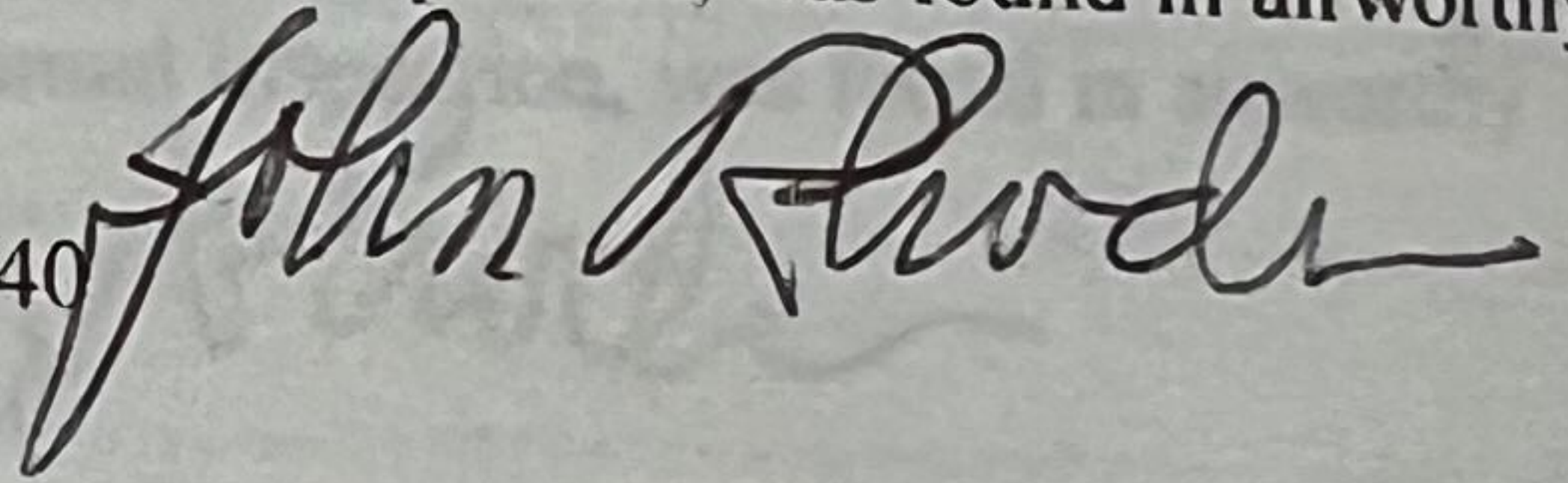
  
Terry Southern  
A&P 3599829 IA



**VISTA**  
AVIATION INC.  
10000 Airpark Way, Pacoima, CA 91331 USA  
telephone 818-896-6442, 800-828-6756 (toll free)  
fax 818-896-9541 vista@vistaaviation.com

Date 1-25-18  
N 442Z  
Tach 827  
W/O 203441  
SN 40 1124

Compression test 1/70 2/74 3/70 4/78 CW AD 2015-19-07 Fuel injector lines next due 927 hrs. I certify this engine has been inspected in accordance with a annual inspection, was found in airworthy condition, and is approved for return to service.

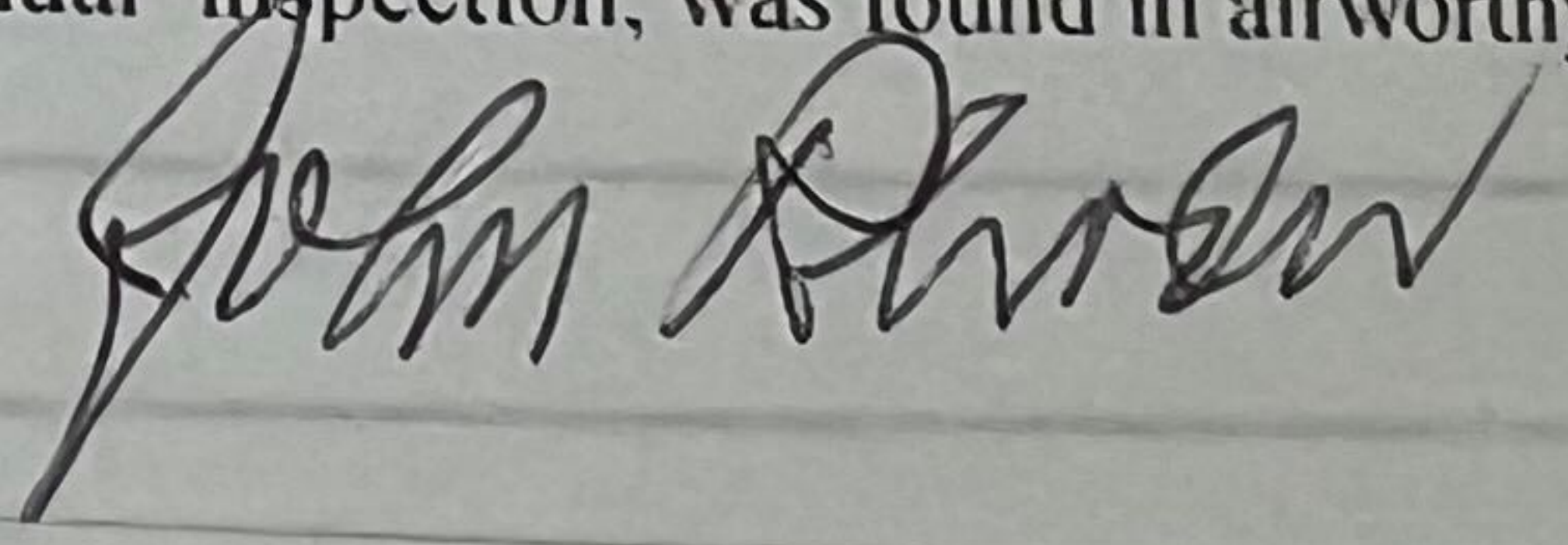
A&P, IA 1971640  
John Rhodes  




**VISTA**  
AVIATION INC.  
10000 Airpark Way, Pacoima, CA 91331 USA  
telephone 818-896-6442, 800-828-6756 (toll free)  
fax 818-896-9541 vista@vistaaviation.com

Date 2-13-19  
N 442Z  
Tach 917.0  
W/O  
SN 40.1124

I certify this propeller has been inspected in accordance with a annual inspection, was found in airworthy condition, and is approved for return to service.

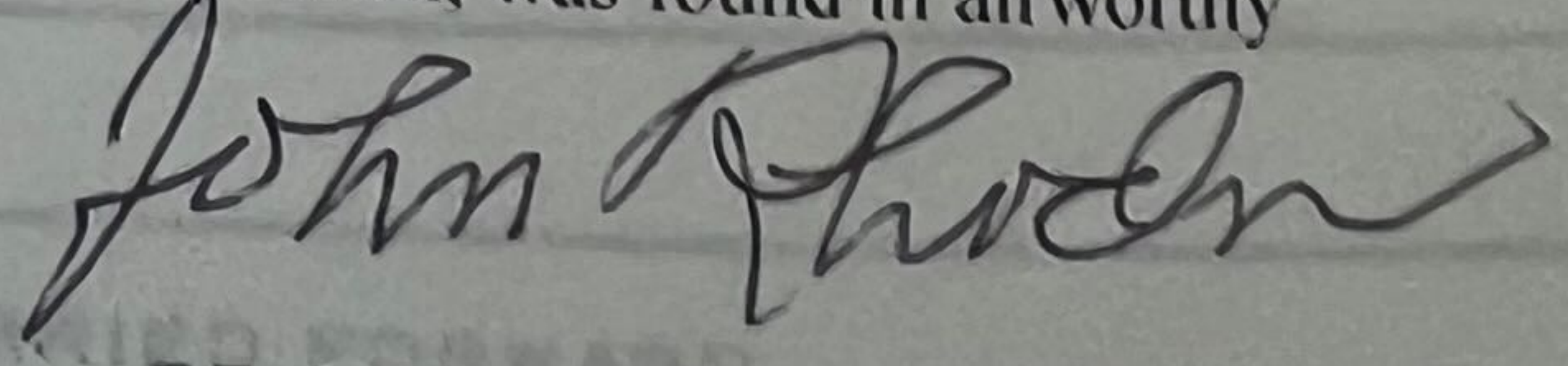
A&P, IA 1971640  
John Rhodes  




**VISTA**  
AVIATION INC.  
10000 Airpark Way, Pacoima, CA 91331 USA  
telephone 818-896-6442, 800-828-6756 (toll free)  
fax 818-896-9541 vista@vistaaviation.com

Date 2-13-19  
N 442Z  
Tach 911.0  
W/O  
SN 40.1124

Change oil and filter service with customer supplied oil and CH 48110-1 filter. Compression test 1/76 2/76 3/74 4/76. Inspected per AD 2015-19-07 no faults next due 1011.0. I certify this engine has been inspected in accordance with a annual inspection, was found in airworthy condition, and is approved for return to service.

A&P, IA 1971640  
John Rhodes  


TOTAL THIS PAGE		
TOTAL FROM PREVIOUS SUMMARY		
TOTAL		

CARRIED FORWARD





Date 03/05/2020  
N 442Z  
IO-360-M1A  
Tach 747.8  
ETSN 747.8

WO 203584  
SN 40.1124  
SN L-35554-51E  
Hobbs 0939.6

Perform annual inspection on this engine iaw Lycoming Engine Service Manual & Checklist as a guide. Compression test: #1 78/80, #2 78/80, #3 75/80, #4 72/80. Drained and serviced engine with 8 qts of Aeroshell 100W oil and new CH48110-1 oil filter, torque and safety wire. Cleaned, gaped and tested sparkplugs and installed with new gaskets and torque. Checked magneto timing to the engine, no adjustment was made. Lube engine control cables and rod-end bearings. This aircraft is in compliance with all current and applicable ADs and printed records placed in aircraft logbook folder.

I certify this Engine has been inspected in accordance with Annual inspection and it was found to be in Airworthy condition, and approved to return to service.

Dustin E. Pour  
A&P27132391A



February 05, 2021  
N 442Z  
IO-360-M1A  
Tach 761.6  
ETSN 761.6

WO 203936  
SN 40.1124  
SN L-35554-51E  
Hobbs 0955.9

Perform annual inspection on this engine using Appendix D, Part 43 as a guide. Compression test: #1 76/80 #2 78/80 #3 76/80 #4 78/80. AD 2015-19-07 FI lines and clamps cw by inspection found no defect, next due 861.6 tis. Drained and serviced engine with 8 qts of Aeroshell 100W Plus oil and installed new CH48110-1 oil filter, torque and safety wire. Cleaned, gaped, and tested sparkplugs and installed with new gaskets and torque. Checked magneto timing to the engine, no adjustment was made. Lube engine control cables and rod-end bearings. This aircraft is in compliance with all current and applicable ADs thru Biweekly 2021-05.

I certify this Engine has been inspected in accordance with Annual inspection and it was found to be in Airworthy condition.

Dustin E. Pour  
A&P27132391A



March 11, 2022  
N 442Z  
IO-360-M1A  
Tach 775.2  
ETSN 775.2

WO 202272  
SN 40.1124  
SN L-35554-51E  
Hobbs 973.4

Perform annual inspection on this engine using Diamond DA 40 Maintenance checklist as a guide per Appendix D, Part 43. Compression test: #176/80 #2 75/80 #3 77/80 #4 78/80. Checked L/R magneto timing to engine at 25 deg, no adjustment was made. AD 2015-19-07 FI lines and clamps cw by inspection found no defect, next due 875.2 tis. Drained and serviced engine with 8 qts of Aeroshell 100W Plus oil and installed new CH48110-1 oil filter, torque and safety wire. Cleaned, gaped, and tested sparkplugs, installed plugs with new gaskets and torque. Lube engine control cables, rod-end bearings and starter Bendix. Performed post inspection engine run, all engine gauges within range, operation satisfactory. This engine is in compliance with all current and applicable ADs thru Biweekly 2022-06.

I certify this Engine has been inspected in accordance with Annual inspection and it was found to be in Airworthy condition.

Dustin E. Pour  
A&P27132391A



ENGINE SERVICE AND

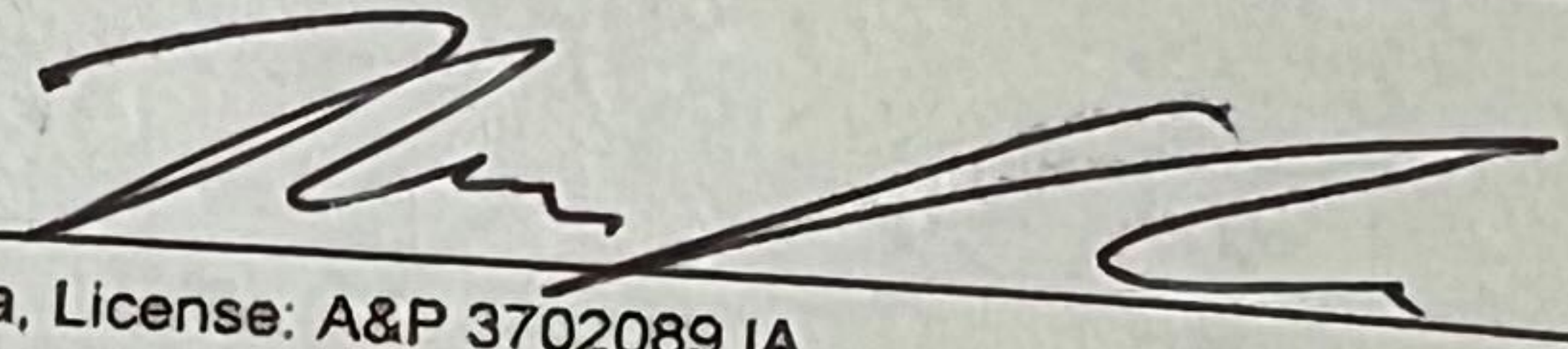
ENGINE MODEL: Aero City Maintenance  
 IO-360-M1A  
 ENGINE S/N: L-35554-51E 2901 East Spring St. Suite A  
 REG. NO: N442Z Long Beach, CA 90806  
 WORK ORDER: 4217 Phone: 562-912-4263

DATE: 4/6/2022  
 A/C TSN: 782.2  
 ENG TT: 782.2  
 TSMOH:  
 TACH: 782.2

Engine Entries

Replaced propeller governor with PN: P-860-23 SN: 216827K (Removed: PN: S-1-6 SN: G938NJ) due to excessive leaking oil using Diamond DA40-180 AMM as a guide. Operation/leak check good. Test flight check good.... Replaced oil dipstick tube gasket PN: 72059 due to leak using Lycoming IO-360-M1A MM CH. 72 as a guide.

Technicians Who Worked On The Items Listed Above:  
 Andres Guzman, Richard Formica

DATE: 4/6/2022 SIGNED:   
 Richard Formica, License: A&P 3702089 IA

Work Order: 4217

Printed by EBis 3 (datcomedia.com)

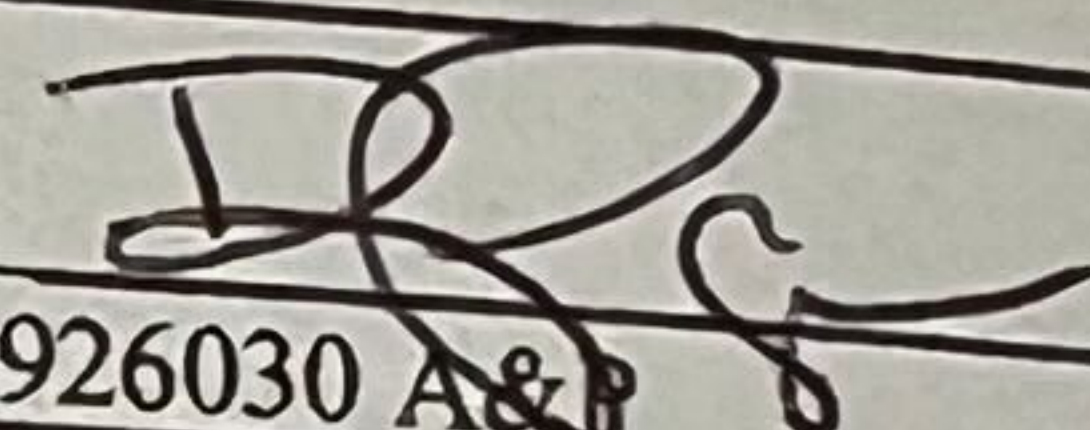
Model: DA-40  
 S/N: 40.1124  
 Reg# N442Z  
 Make: Lycoming  
 Model: IO-360-M1A  
 Serial: L-35554-51E



Tach: 800.3  
 Hobbs: 1007.3

C/W Engine 50 hr oil change. Drained oil, removed filter, cut, and inspected ok. Replaced AA48110-2 filter, serviced with 7 quarts of Aeroshell 15W50

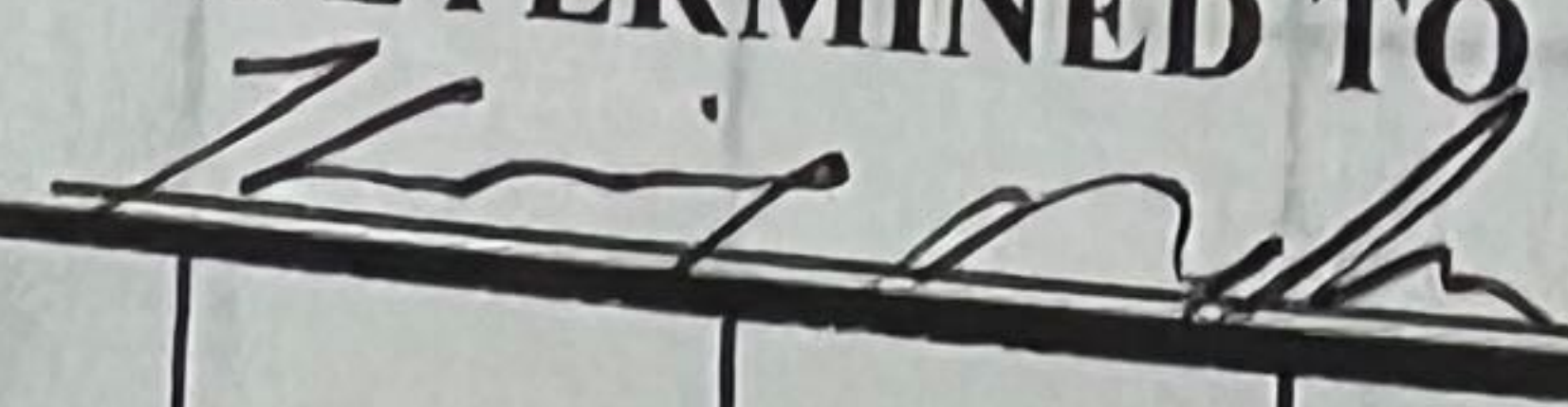
Date: Aug 3, 2022

Mechanic:   
 Darr Page 2926030 A&P

ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386  
 N442Z Lycoming IO-360-M1A S/N: L-34678-51E Total Time: 828.5  
 6 April 2023 Tach Time: 828.5

**100 Hour Inspection for Annual** completed this date using the Power Flow Exhaust Systems Instructions Continued Airworthiness and the Diamond Maintenance Manual Inspection Form for Model DA40 as a guide. Compression test: #1) 79/80, #2) 76/80, #3) 77/80, #4) 75/80. Changed engine oil and filter (Shell 15W50). Cut oil filter open and inspected, no contaminants noted. Cleaned, gapped, tested, and rotated spark plugs. Removed the right magneto 4370, S/N: 13091391 and completed a 500-hour magneto inspection. Installed new points, carbon brush and seal. Set internal timing. Reinstalled magneto on engine with a new gasket. Set magneto to engine timing. Checked left magneto timing. Inspected ignition harness and leads for condition and security. Inspected cooling baffles and seals for condition and security. Inspected and cleaned servo fuel inlet screen. Leak checked fuel system. Washed down engine using solvent. Inspected and serviced induction air filter. Checked and lubed engine controls. Removed the power flow exhaust system and completed inspection and service per Power flow ICA. Reinstalled the exhaust system with new gaskets. **Complied with Lycoming AD 2015-19-07 (Fuel Injection lines and clamps)** by visual inspection per Lycoming SB 342G, no defects noted. Installed a new dip stick tube gasket at case. Tightened clamps for rocker box return line hoses as needed. AD's checked through Biweekly 2023-07. Post inspection engine ground run-up, operational check and leak check good. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.**


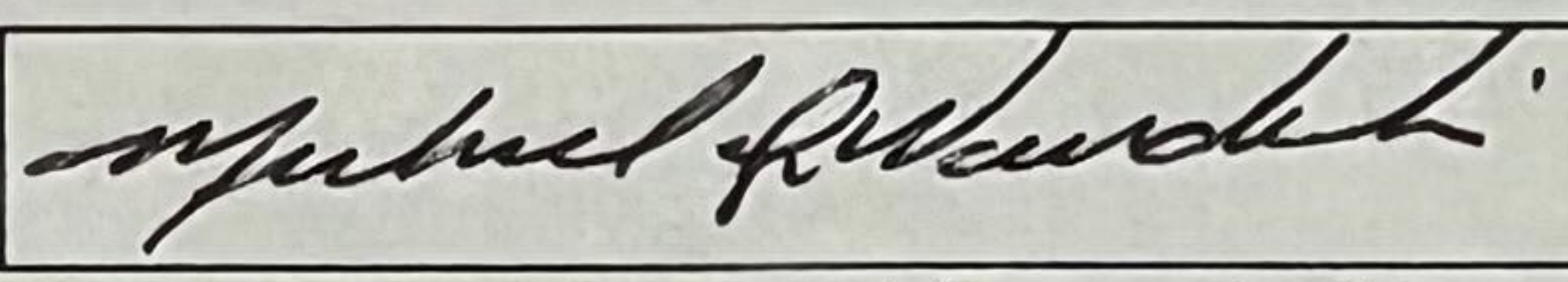



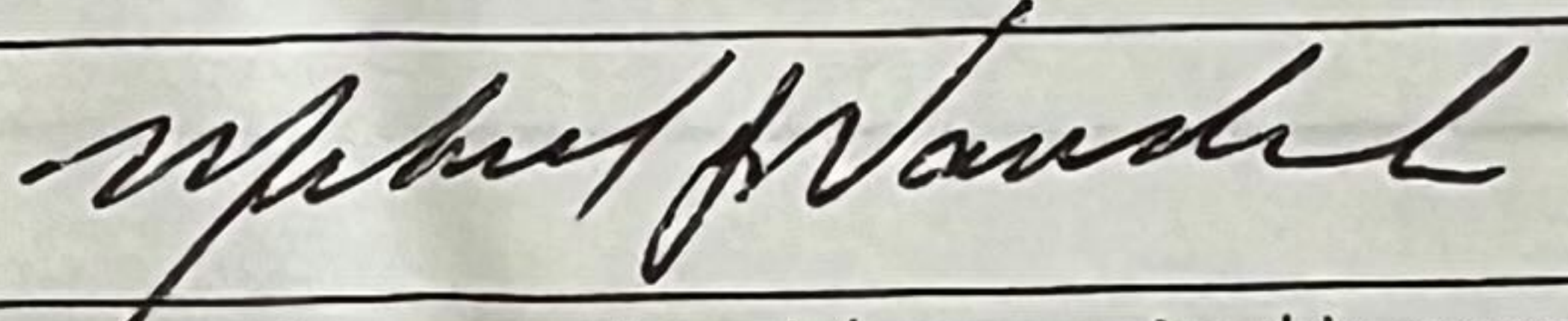
Kevin Mosher A&P 3443784 w/o 44175



# MAINTENANCE RECORD

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

Reg #	N442Z	AFTT:	879.7		SAS-Maintenance 3909 Airport Road. Hanger. S-481 Ogden, Utah. 84405.
Make	Lycoming	Tach:	879.7		
Model	IO-360-M1A	Hobbs:	1101.2		
S/N #	L355554-51E	TSMOH:	N/A		
Position	Single	W/O #	N/A		
Drained oil and removed oil filter. Cut open filter and inspected. No defects noted. Installed AA48110-2 Oil Filter and Safety wired. Serviced 8 Quarts Aeroshell 15W50. Washed engine. Leak checked. No defects noted.					
Signature	Michael J. Vandehei				7/6/2023
Certificate #	3434874 AP/IA				Date
The Aircraft and / or components identified above were inspected and / or repaired in accordance with Title 14 Code of Federal Regulations, Part 43 and is approved for return to service in respect to that work performed.					

Reg #	N442Z	AFTT:	905.2		SAS-Maintenance 3909 Airport Road. Hanger. S-481 Ogden, Utah. 84405.
Make	Lycoming	Tach:	905.2		
Model	IO-360-M1A	Hobbs:	1133.2		
S/N #	L-355554-51E	TSMOH:	N/A		
Position	Single	W/O #	101		
Drained oil and removed oil filter. Cut open filter and inspected. No defects noted. Installed new AA48110-2 Filter and safety wired. Serviced with 8 Quarts Aeroshell 15W50.					
Signature	Michael J. Vandehei				3/14/2024
Certificate #	3434874 AP/IA				Date
The Aircraft and / or components identified above were inspected and / or repaired in accordance with Title 14 Code of Federal Regulations, Part 43 and is approved for return to service in respect to that work performed.					

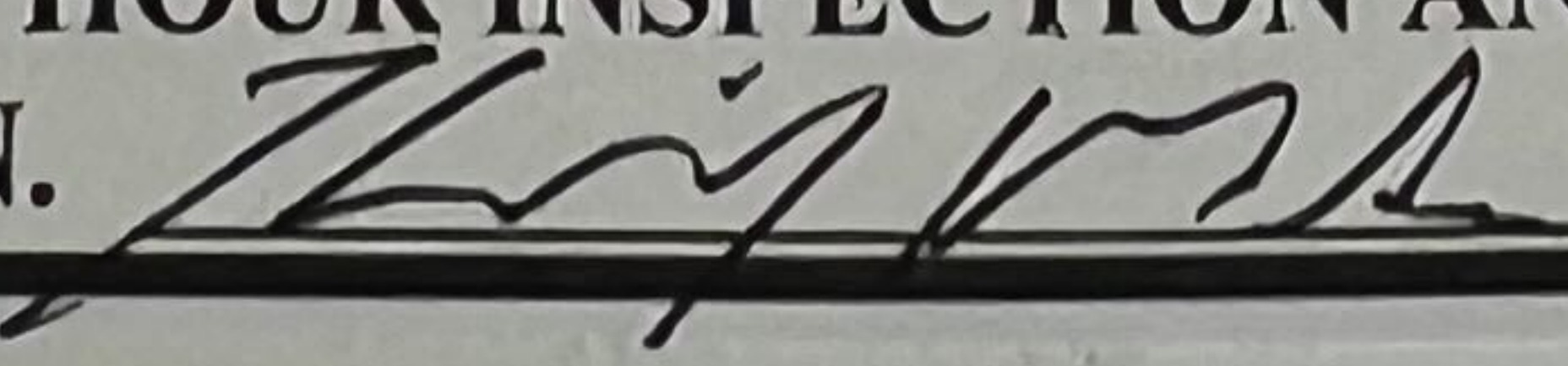
## ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

**N442Z    Lycoming    IO-360-M1A    S/N: L-34678-51E    Total Time: 916.4**

**23 May 2024    Tach Time: 916.4**

**100 Hour Inspection for Annual** completed this date using the Power Flow Exhaust Systems Instructions Continued Airworthiness and the Diamond Maintenance Manual Inspection Form for Model DA40 as a guide. Compression test: #1) 78/80, #2) 76/80, #3) 75/80, #4) 73/80. Changed engine oil and filter (**Shell 15W50**). Cut oil filter open and inspected, no contaminants noted. Checked timing of magnetos to engine. Adjusted timing of right magneto as needed. Cleaned, gapped, tested, and rotated spark plugs. Inspected ignition harness and leads for condition and security. Inspected and cleaned servo fuel inlet screen. Leak checked fuel system. Washed down engine using solvent. Removed dip stick tube, installed new gasket, reinstalled and safetied. Inspected and serviced induction air filter. Complied with **300 Hour Lycoming Fuel Injection Nozzle** by removing injectors, inspecting, and cleaning, no defects noted. **Next service due Tach Time: 1216.4.** Complied with **Lycoming AD 2015-19-07 (Fuel Injection Lines)** effective 11-03-2015 by inspecting fuel injection lines and clamps per Lycoming. MSB 342G, no defects noted. **Next fuel line inspection due Tach Time: 1026.4.** AD 2020-25-12 (SAP Crankshaft) N/A part not installed. AD's checked through Biweekly 2024-10. Post inspection engine ground run-up, operational check and leak check good. **I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH A 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.**


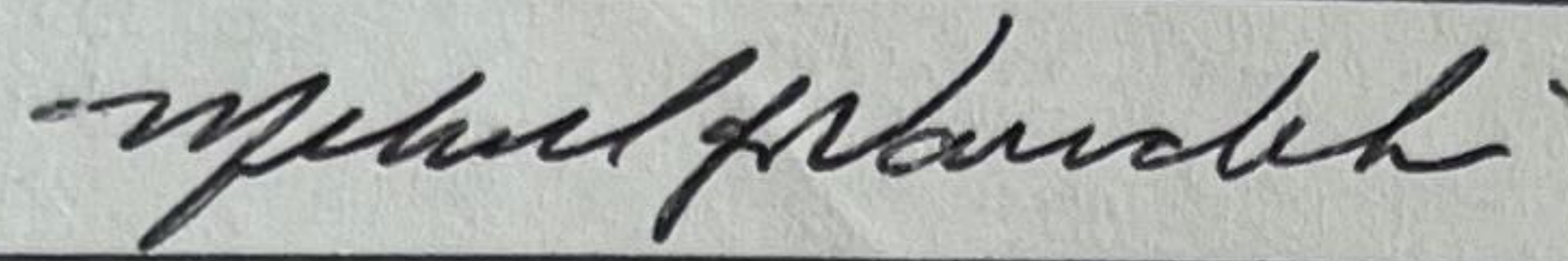

**Kevin Mosher A&P 3443784    w/o 45157**



# ENGINE SERVICE AND

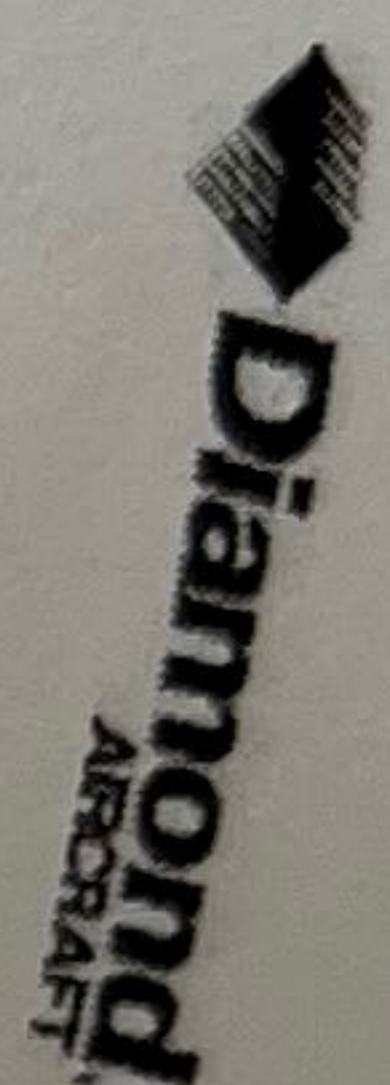
DATE	TIME RUN		TIME SINCE OVERHAUL	
	HRS.	MIN.	HRS.	MIN.
BROUGHT FORWARD				

**NOTE:** USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE INSTALLATIONS, INSPECTIONS,

Reg #	N442Z	AFTT:	951.3		SAS-Maintenance 3909 Airport Road. Hanger. S-481 Ogden, Utah. 84405.
Make	Lycoming	Tach:	951.3		
Model	IO-360-M1A	Hobbs:			
S/N #	L-355554-51E	TSMOH:	N/A		
Position	Single	W/O #	185		
Drained oil and removed oil filter. Cut open filter and inspected. No defects noted. Installed new AA48110-2 Filter and safety wired. Serviced with 8 Quarts Aeroshell 15W50.					
Signature	Michael J. Vandehei				7/24/2024
Certificate #	3434874 AP/IA				Date
The Aircraft and / or components identified above were inspected and / or repaired in accordance with Title 14 Code of Federal Regulations, Part 43 and is approved for return to service in respect to that work performed.					

ENTRIES.





Engine Log

checked	AD/MSB/SB/SI	REV	Description	Next Due	Effectivity	method of compliance
	AD's		Engine (FAA)			
X	2011-15-10		Lycoming /Superior Engines	N/A	Engines as listed in AD with Avstar Fuel Servos installed	N/A by Inst.
X	2009-26-12		Parallel Valve reciprocating engines - supercedes - 2008-19-05	N/A	ECI Cyls only	N/A by Inst.
X	2009-02-03		Fuel Injection servo plugs - supercedes 2008-08-14	NA	all - except if stamped "G"	N/A by Inst.
X	2008-19-05		Parallel Valve reciprocating engines - superceded by - 2009-26-12	N/A	ECI Cyls only	found C/W
X	2008-14-07		Externally Mounted Fuel Injector lines	100hrs	See AD	N/A by Inst.
X	2008-08-14		Fuel Injection servo plugs	N/A	superceded by 2009-02-03	Initial - C/W BY LYCOMING
X	2006-20-09		Crankshaft replacement	N/A	(L)IO-360	N/A by model
X	2006-12-07		ECI cylinder assemblies	N/A	See AD	N/A by Inst.
X	2006-06-16		crankshaft	N/A	See AD	N/A - by model
X	2004-10-14		Crankshaft Gear	as req'd	See AD	new p/n inst'd - C/W by Lycoming
X	2003-14-03		Rotary Fuel pumps	N/A	See AD	N/A - by model
X	97-15-11		Crankshaft	See AD	See AD	C/W BY LYCOMING
X	96-23-03		Recall of Piston Pin	NA	P/N LW-14077	new config p/n inst'd - C/W by Lycoming
X	96-09-10		High Pressure fuel pumps	N/A	LW-15473 Fuel Pump	New Pump inst'd - C/W by Lycoming
X	75-09-15		oil sump	N/A	See AD	N/A - by model
X	75-08-09		fuel starvation to the engine	N/A	See AD	new p/n gasket inst'd - C/W by Lycoming
X	73-23-01		oil pump drive shaft	N/A	See AD	N/A - new model
X	66-20-04		Piston Pin Assembly	N/A	See AD	N/A - by model
	AD's		Oil filler adapter gasket	N/A	N/A	N/A - by model
	AD's		Engine (EASA)			
X	2008-19-05		ECI cylinders	NA	NA	NA - not installed
X	2006-0295 E		contamination of the engine fuel system	NA	40,448 - various to 40,669	NA by SN
X	2005-0023R3		Exhaust valve and guide- Inspection	440 hrs	See AD	NA by TT
	AD's		Engine (TC)			
X	2009-02-03		Fuel Injection servo plugs - supercedes 2008-08-14	NA	all - except if stamped "G"	found C/W



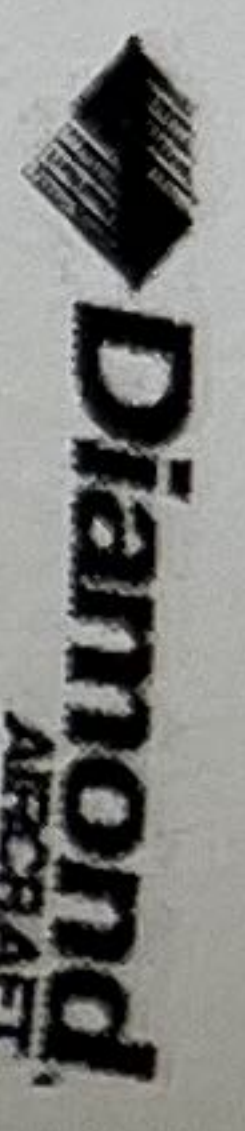
Engine Log

checked	AD/MSB/SB/SI	REV	Description	Next Due	Effectivity	method of compliance
X	CF-2005-40		Non-Conformance of Maintenance on Piston Engines	NA	NA	NA - new engine
X	CF-90-03R2		Exhaust type cockpit/cabin heaters (muff) inspect pipes + tubes to detect deterioration	annual / 150 hrs which ever occurs first	ALL	NA by TT
X	F-2005-023		ENGINES OVERHAULED BY PROVENANCE AERO MAINTENANCE	NA	NA	NA by Inst.
X	2008-19-05		Engine Components Inc. (ECI) - Cylinder assembly part number AEL65102 series -Titan and with cylinder head part number AEL85099 installed.	NA	NA	C/W BY LYCOMING
X	2008-14-07		failure of the fuel injector fuel lines.	100hrs	See AD	found C/W
X	2008-08-14		Precision Air motive LLC, RSA-5 or RSA-10 series fuel injection servo as indicated within this Directive.	N/A	all - except if stamped "G"	N/A - SAP
X	2007-04-19R1		Cylinder separation	N/A	See AD	cyls not installed -new engine
X	2006-12-07		To prevent loss of engine power due to cracks in the cylinder assemblies and possible engine failure caused by separation of a cylinder head.	N/A	See AD	N/A by Inst.
X	2006-06-16		Crankshaft failure	N/A	See SB 566	C/W by Lycoming
X	2005-19-11		Crankshafts	N/A	See AD	C/W by Lycoming
X	2004-10-14		CRANKSHAFT GEAR RETAINING BOLT	N/A	See AD	C/W BY LYCOMING - new pump installed suffix "M"
X	2003-14-03		TORQUE CHECK INSPECTION OF ROTARY FUEL PUMPS	N/A	See AD	C/W by Lycoming
X	98-02-08		CRANKSHAFT INSPECTION	N/A	See AD	C/W by Lycoming
X	96-23-03		HIGH PRESSURE FUEL PUMP	N/A	See AD	C/W by Lycoming
X	96-09-10		ENGINE OIL PUMP IMPELLERS	N/A	See AD	N/A - by Lycoming
X	95-07-01		CONNECTING ROD BOLTS	N/A	See AD	N/A
X	93-11-11		FUEL PUMPS	N/A	See AD	N/A
X	91-08-07		FUEL PUMP VENT HOSE FITTING LEAK CHECK	N/A	See AD	N/A
X	75-08-09		oil pump drive shaft	N/A	See AD	N/A - no turbo charger
X	75-09-15		FUEL FLOW DIVIDER COVER GASKET	N/A	See AD	N/A - new
X	73-23-01R4		PISTON PINS	N/A	See AD	C/W by Lycoming



DA 40 SN:40.1124  
REG : C-GRWR

Engine Model : IO-360-M1A  
SN : L-35554-51E  
Prop Model : HC-C2YR-11N/N7605  
SN : NS496B



Engine Log

checked	AD/MSB/SB/SL	REV	Description	Next Due	Effectivity	method of compliance
X	66-20-04		OIL FILTER ADAPTER GASKET Lycoming SBs Exhaust Valve Rotator Cap	N/A	See AD N/A by engine model	C/W by Lycoming N/A
X	SB-585		Reprint of MANDATORY Unison Service Bulletin No. SB2-08	see SB	see SB for list	NA by SN
X	SB-584	B	Reprint of MANDATORY Unison Service Bulletin No. SB3-08	see SB	see SB for list	NA by SN
X	SB-583	A	Reprint Precision Airotive MSA-13 - Caburetor Floats	NA	see SB	NA - by fuel system
X	SB-582	A	Reprint of Precision Airotive MANDATORY Service Bulletin Nos. PRS-107, Rev. 1 and PEX-1	N/A	all - except if stamped "G"	N/A - gasket replaced / nut stamped "G"
X	SB-581	A	Reprint of Kelly Aerospace Service Bulletin No. 029	N/A	TIO-540 engines	N/A by engine model
X	SB-580		Clearance Between Oil Sump Assembly and Oil Sump Baffle	N/A	540 / 580	N/A by engine model
X	SB-579		Incorrect Cylinder Assemblies Shipped With Cylinder Kits	N/A	cyl kits only	N/A
X	SB-578					N/A by engine model / starter PN
X	SB-577	A	Sky-Tec PM Model Starter Replacement	N/A	see SB for list	N/A by engine model / starter PN
X	SB-576		Reprint of Teledyne Continental Ignition Systems Service Bulletin No. SB 633A	N/A	TCM/Bendix Magns	N/A by model
X	SB-574A	A	Cylinder Stud Hole Cross-Threaded	N/A	see SB , table 1	NA by SN
X	SB-573		Pressurized Magneto Pressure Tests Supplement to Pressurized Magneto Pressure Tests	N/A	see SB for list	N/A by model
X	SB-573S-1		Missing Oil Passage Hole at Idler Shaft Location	N/A	0-235 engines	N/A by model
X	SB-572					N/A by model
X	SB-571		Reprint of Sky-Tec Service Bulletin No. 2006-3-1 (Replacement of Specified Sky-Tec Starters - Model 31B22101/149-24PM)	N/A	IO-540	N/A by model
X	SB-569A	A	Crankshaft Retirement for Certain Lycoming Engines	N/A	see SB 566	see SB566
X	SB-568		Reprint of Slick Aircraft Products Service Bulletin No. SB1-88B	N/A	presurized magnetos only	N/A by magneto PN
X	SB-566S-1		Additional 360 Engines with Suspect Crankshafts	N/A	see SB 566	N/A
X	SB-566		Crankshaft Replacement in Lycoming Engines	N/A	see SB	CW by Man.
X	SB-565		Diaphragm-Type Fuel Pump Inspection/Replacement	N/A	Fuel pump PN-LW15473	N/A by pump date code
X	SB-564	A	Inspection of Suction Screen Length	N/A	N/A	N/A by Model

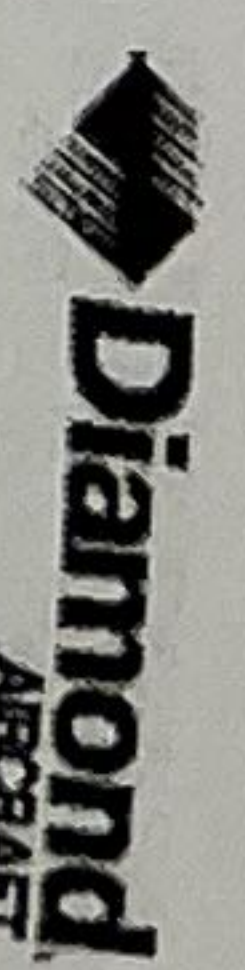
aircraft tech log. section 3

Avantext AD Series # 2011-22

Page 3 of 6

DA 40 SN:40.1124  
REG : C-GRWR

Engine Model : IO-360-M1A  
SN : L-35554-51E  
Prop Model : HC-C2YR-11N/N7605  
SN : NS496B



Engine Log

checked	AD/MSB/SB/SL	REV	Description	Next Due	Effectivity	method of compliance
X	SB-561		Connecting Rod Bearing Replacement on (L)TIO-540-U2A, -V2AD and -W2A Engines	N/A		N/A by Model
X	SB-559		Reprint of Kelly Aerospace Power Systems (Formerly Electrosystems) S.B. No A-112, Rev. A	N/A	See SB, Kelly Aerospace starters	N/A by starter model
X	SB-558		Inspection of Oil Suction Screen Area in IO-540-AE1A5 Oil Sump for Casting Voids	N/A	See SB	N/A by engine model
X	SB-557		Fuel Injector, Precision Airotive Corp. Service Bulletin No. PRS-105, "Servo Metered Fuel Pressure Port Leakage"	N/A	RSA-5, RSA-10 fuel servos	N/A by Date
X	SB-556		P/N LW-11201 Washer, Replacement	N/A	See SB	N/A by engine model
X	SB-555A		Inspection, Oil Pump Body Plug	N/A	See SB	N/A by shipping date
X	SB-554S-5		Supplement No. 5 to S.B. 554	N/A	See SB	N/A by engine model
X	SB-554S-4		Supplement No. 4 to S.B. 554	N/A	See SB	N/A by engine model
X	SB-554S-3		Supplement No. 3 to S.B. 554	N/A	See SB	N/A by engine model
X	SB-554		Bolt, Crankshaft Gear Retaining, Replacement	N/A	See SB	N/A by engine model
X	SB-553S-1		Supplement No. 1 to Service Bulletin No. 553	N/A	See SB	N/A by engine model
X	SB-553		Crankshaft Inspection for Lycoming Six Cylinder Turbocharged Engines (Refer to Supplement No. 1 to S.B. 553)	N/A	See SB	N/A by engine model
X	SB-552S-1		Supplement No. 1 to Service Bulletin No. 552	N/A	See SB	N/A by engine model
X	SB-549S-1		Crankshaft Replacement in Lycoming TIO and LTIQ-540 Engines Rated at 300 Horsepower and Higher (Refer to Supplement No. 1 to S.B. 549)	N/A	See SB	N/A by engine model
X	SB-549		Supplement No. 1 to Service Bulletin No. 549	N/A	See SB	N/A by engine model
X	SB-548A	A	Diaphragm-Type Fuel Pump Inspection/Replacement	N/A	See SB	N/A by pump date code

aircraft tech log. section 3

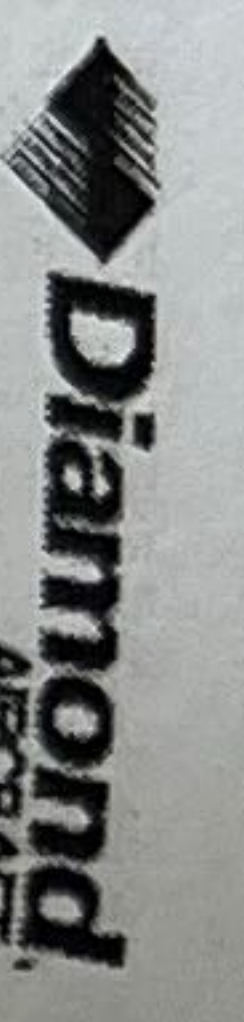
Avantext AD Series # 2011-22

Page 4 of 6



DA 40 SN:40.1124  
REG: C-GRWR

Engine Model : IO-360-M1A  
SN : L-35554-51E  
Prop Model : HC-C2YR-11N/7605  
SN : NS4968



Engine Log

checked	ADM/SB/SB/SI	REV	Description	Next Due	Effectivity	method of compliance
X	SB-5475-1		Supplement No. 1 to Service Bulletin No. 547 Bearing Replacement, Connecting Rod on TIO-540-AE2A Model Engines (Refer to Supplement No. 1 to S.B. 547)	N/A	See SB	N/A by engine model
X	SB-547		Filler Tube, Oil, Replacement	N/A	See SB	N/A by engine model
X	SB-545A	A	Bearing Replacement, Part Identification	N/A	See SB	N/A by engine model
X	SB-544B	B	Converter Plate Gasket, Oil Filter, Replacement	N/A	See SB	N/A by engine model
X	SB-543B	B	Fuel Pump, Lear Romeo Service Bulletins No. RG980-73-001, No. RG9570-73-001, and No. RG17980-73-001, "Replacement of Valve Housing and Related Seats"	N/A	See SB	N/A by date
X	SB-539A		Engine Stoppage - Recommendations Regarding Accidental	As Req'd	ALL	As required - see SB
X	SB-533A		Coating, Protective, Application on Crankshaft	N/A	See SB	N/A by engine model
X	SB-530B	B	Fuel Pump, Lear Romeo Service Bulletin No. 101SB020, "Torquing of Helix Valve Cover Screws"	N/A	See SB	N/A - "M" suffix pump installed by LYCOMING
X	SB-529B-1	B	Supplement No. 1 to Service Bulletin No. 524	N/A	See SB	N/A - by LYCOMING
X	SB-524		Aluminum and Sintered Iron Oil Pump Impellers, Replacement (Refer to Supplement No. 1 to S.B. 524)	N/A	See SB	N/A - shipped after Feb 15, 1997
X	SB-505B	B	Crankshaft ID, Inspection for Corrosion	NA	See SB	C/W during manufacturing
X	SB-480E	E	I, Oil and Filter Change and Screen Cleaning II, Oil Filter/Screen Content Inspection	25 hrs	All	C/W BY LYCOMING
X	SB-475C	C	Crankshaft Gear Modification and Assembly Procedures	NA	See SB	NA by engine model
X	SB-446E	E	Use of Lycoming LW16702 Oil Additive	NA	See SB	NA
X	SB-398		Fuel Recommendations Regarding Use of Unspecified Fuel Type	As Req'd	All	NA by TT C/W BY LYCOMING
X	SB-388C	C	Exhaust Valve and Guide, Procedure to Determine Condition (Refer to S.B. 388)	400 Hrs	All	NA by TT C/W BY LYCOMING
X	SB-382		Bendix Fuel Inj RS-43 insp of mod of flow dividers	NA	see SB / AD	

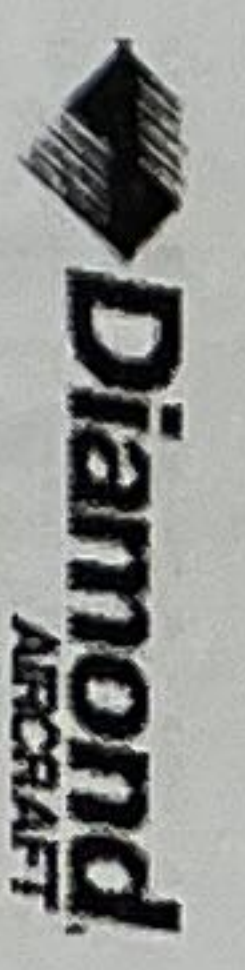
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DA 40 SN:40.1124  
REG: C-GRWR

Engine Model : IO-360-M1A  
SN : L-35554-51E  
Prop Model : HC-C2YR-11N/7605  
SN : NS4968



Engine Log

checked	ADM/SB/SB/SI	REV	Description	Next Due	Effectivity	method of compliance
X	SB-369J	J	Engine Inspection After Overboost/Overspeed	any overspeed condition 3 seconds or greater	All IO-360 series. See SB for table	NA - no overspeed noted during production Flight Test
X	SB-342E	E	Fuel Line and Support Clamp Inspection and Installation	100 hrs	ALL	Initial Insp. - C/W BY LYCOMING
X	SB-366B	B	Carburetor Throttle Body Screw Inspection	NA	See SB	NA by inst.
X	SB-240T	T	Parts Replacement, Mandatory, at Normal Overhaul and During Repair or Normal Maintenance	@ overhaul or repair as req'd	All	NA

Authorizing Signature

*[Signature]*  
INSPECTOR

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OCT 21 2011  
DATE

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**LYCOMING**  
 652 Oliver Street  
 Williamsport, PA 17701 U.S.A.

**Airworthiness Directive Compliance List**

Engine Model No: **IO-360-M1A**

Sign for AD's Coded 1 (Applicable to Engine Model) **3**

Engine SN: **L-35554-51E**

**Sep 8, 2011**

AD No. / Rev	SB / rev	Description /	Method of Compliance	Next Due	Code
75-09-15	382	BENDIX FUEL INJ RS-43 INSP OF MOD OF FLOW DIVIDERS	NEW P/N GASKET INSTALLED	N/A-Once	1
94-01-03 / R2	N/A	DEFECTIVE IGN COILS AND ROTATING MAGNETS	NEW CONFIGURATION PART INST.	N/A-Once	1
94-06-09	517	INCOMPLETE INTERNAL GROUNDING ON MAG CAPACITORS	NEW CONF. CAPACITORS INSTALLED	N/A-Once	1
96-23-03	525 / A	HIGH PRESSURE FUEL PUMP INSTALLED LW-15473	NEWLY MANUFACTURED PUMPS INST.	N/A-Once	1
97-15-11	527 / C	RECALL OF PISTON PIN P/N LW-14077	NEW CONFIGURATION P/N INST.	N/A-Once	1
98-02-08	530 / B	INSPECTION OF CRANKSHAFT ID FOR CORROSION	MAG INSP./APPLY URETHABOND 104	N/A-Once	1
2004-10-14	475 / C	CRANKSHAFT GEAR MODIFICATION AND ASSY PROCEDURES	NEW P/N INSTALLED	N/A-Once	1
2005-19-11	566	Crankshaft replacement	Replace Crankshaft	N/A-Once	1
2008-14-07	342 / E	FUEL LINE AND SUPPORT CLAMP INSPECTION & INSTALL.	NEW LINES INST. WITH NEW CLAMP	100 HOURS	1
2009-02-03	581	Inspection of Precision Airmotive Hex Plug in regulator cover	New improved gasket P/N 2577258 installed	N/A-Once	1
2011-15-10	596	Avstar Fuel System fuel servo diaphragm	New configuration diaphragm installed	N/A-Once	1
64-16-05	298 / Inacti	AC FUEL PUMP OIL SEAL	NEW CONF. FUEL PUMP INSTALLED	N/A-Once	2
66-06-03	302 / A	REPLACEMENT OF CONNECTING ROD ASSY.	NEW ROD CONFIGURATION	N/A-Once	2
66-20-04	307	OIL FILTER ADAPTER GASKET	NEW CONF. GASKET INSTALLED	N/A-Once	2
67-22-06 / 4	305 / B	REPLACEMENT OF BENDIX FUEL DIAPHRAGM ASSY	NEW OR NEWLY O/H INSTALLED	N/A-Once	2
71-05-02	327 / C	INSPECTION OF CENTER MAIN BEARING	NEW INSTALLED	N/A-Once	2
71-11-02	328	REPLACEMENT OF EXH & INT HYD TAPPET PLUNGERS	NEW P/N HYD TAPPETS INSTALLED	N/A-Once	2
73-23-01	367 / F	INSP FOR CRACKS IN PISTON PINS	INST NEW PARTS	N/A-Once	2
78-23-10	428	BENDIX FUEL INJ. BULLETIN RS-42	NEW P/N INSTALLED	N/A-Once	2
79-04-05	433 / A	BENDIX FUEL INJ. BULLETIN RS-57	NEW P/N INSTALLED	N/A-Once	2
87-10-06 / R1	477 / A	INSPECTION AND REWORK OF LW-18790 ROCKER ARM ASSY	NEW CONFIGURATION P/N INST.	N/A-Once	2
90-04-06 / R1	488 / A	PROPELLER GOVERNOR LINE SUPPORT	NEW LINE W/STEEL CON. NUTS INS	N/A-Once	2
92-12-05	501 / B	LW-14077 PISTON PIN	NEW PARTS INSTALLED	N/A-Once	2
93-14-15	N/A	INST OF PLCKRD DENOTING OPER. NOT TO EXCEED 33.#HG	FIELD COMPLIANCE AFTER STC	N/A-Once	2
95-07-01	N/A	CONNECTING ROD BOLT FAILURE	LYCOMING PART INSTALLED	N/A-Once	2
95-26-02	398	ENGINES OPERATED WITH LOW OCTANE FUEL	ENGINE IS NEW OR HAS BEEN REBUILT AT MANUFACTURER	N/A-Once	2
96-09-10	524	REPLACEMENT OF OIL PUMP IMPELLERS	STEEL IMPELLERS INSTALLED	N/A-Once	2
98-17-11	N/A	CRANKSHAFT REPAIRED BY NELSON BALANCING SERVICE	MAG/PARTICLE INSP OF C/SHAFT	N/A-Once	2
2002-12-07	543 / B	OIL FILTER CONVERTER PLATE GASKET REPLACEMENT	NEW P/N CONVERTER PLATE INSTALLED	N/A-Once	2
2003-14-03	529 / B	ROTARY FUEL PUMP TORQUE.	NEW PUMP WITH "M" SUFFIX INSTALLED	N/A	2
2006-06-16	566 sup 1	Replace crankshaft	Crankshaft replaced	N/A-Once	2
2006-20-09	569 / A	CRANKSHAFT REPLACEMENT	REPLACE CRANKSHAFT	N/A-Once	2