

## AIRCRAFT

- |                                           |         |
|-------------------------------------------|---------|
| 1. Nationality and Registration :         | C-GXMC  |
| 2. Manufacturer's designation :           | DA 40   |
| 3. Manufacturer's Serial Number:          | 40.1079 |
| 4. Type Approval or Specification Number: | A-224   |
| 5. Date of Manufacture :                  | 2010    |
| 6. Aircraft Inspections cycle:            |         |

Airframe

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# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLE</small>
	HRS.	MIN.	HRS.	MIN.	



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

Registration: C-GXMC  
AC Serial Number: 40.1079  
Engine Serial Number: L-35117-51E  
Prop Serial Number: CH45204B  
Airframe Total Time: 4.3 hrs

- Total Time Airframe Brought forward from Flight Test Journey Log (DAI - Form Q-157): 4.3 hrs
- Compass Swing Performed:

- Date: April 1, 2010
- Next Due: April 2011

FOR	N	30	60	E	120	150
STEER	360	030	060	090	121	151
FOR	S	210	240	W	300	330
STEER	181	210	239	269	299	329

- 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: March 22, 2010
  - Next Due: March 2012
- Stand By Altimeter:
  - Test Date: March 12, 2010
  - Next Due: March 2012
- 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: March 22, 2010
  - Next Due: March 2012
  - Programmed Reg: C-GXMC
  - Hex Code: C0829F
- The ELT was tested and inspected in Accordance with CAR Standard 571, Appendix G and 14 CFR 91.207(d):
  - Manufacturers Cert. date: 07/09
  - Installation Inspected: April 9, 2010
  - Battery due: March 2015
  - Next ELT inspection due: April 9, 2011
  - ELT remote switch cell:
    - Due Date: January 28, 2014
  - ELT Programmed:
    - REG: C-GXMC
    - Beacon ID: A78DF020A7C0261
- Emergency Battery Pack : Replacement Due Date: March 2012
- G1000 Installation:
  - Software Version :010-0321-22
  - Obstacle data base expiry date: June 3, 2010
  - Aviation data base expiry date: May 6, 2010
  - Flight Charts data base expiry date: May 6, 2010
  - GTX 33 Software Version: 6.0

DA  
G 20  
Inspector

**APR 2 2 2010**

date

(continued next page)

Airframe

			43	CARRIED FORWARD
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# ENGINEERING RECORD

1

## 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-GXMC  
AC Serial Number: 40.1079  
Engine Serial Number: L-35117-51E  
Prop Serial Number: CH45204B  
Airframe Total Time: 4.3 hrs


- Following limitations as per DA40 AMM Chapter 4 (subject to change with revision):

Component	Hours	Years	Next Due:
Essential Bus	1000	-NA-	1000 hrs
Pitot-Static System	1000	2	1000 or Mar 2012
Bonding System	1000	-NA-	1000 hrs
Emergency Battery	-NA-	2	Mar 2012
Rudder Cables	3000	5	3000 hrs or April 2015
Fuel hoses (aft of firewall)	2000	12	2000 hrs or April 2022
Fuel hoses (fwd of firewall)	2000	12	2000 hrs or April 2022
Oil hoses	2000	12	2000 hrs or April 2022

- 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 up grade 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 2010-08, all applicable AD's complied with
- The work described above was carried out IAW the applicable Standard of Airworthiness.

  
Inspector

APR 22 2010

date

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Airframe

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD			4	3	
May 4		6			
✓ 4		7			
✓ 23		2			
✓ 24		2			
JUNE 7		6			
✓ 8		14			
✓ 9		2			
✓ 11		10			
✓ 15		11			
July 1		10			
✓ 3		8			
✓ 7		8			
✓ 10		10			
✓ 18		3			
Aug 3		10			
✓ 27		6			
Sept 13					
✓ 17					
✓ 18					
✓ 21					
✓ 22		15			
✓ 23		2			
✓ 23		13			
✓ 24					
✓ 24					
✓ 29					

## Diamond

Date: September 24, 2010  
RO-10-121 S/N: 40.1079 Reg: C-GXMC TACH: 24.0 hrs.

The Following work has been carried out:  
Garmin Chartview unlocked.  
Chartview Unlock Data Card supplied to the customer.

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:

DA  
R011

SEP 29 2010

GARMIN  
TACH

2519

CARRIED FORWARD

SEP 29 2010

251 Hour Inspection and servicing Carried out  
Oil and filter changed Oil Samples Taken, Oil  
filter Elementance Oil Pump Section screen  
Inspected, OK in Accordance with LYC SB 480 E  
CH48110-1 filter Installed, Aeroshell WISW50  
Added, Ground Run and Leak checked OK.

# ENGINEERING RECORD

2

INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER

AVIATION UNLIMITED MAINTENANCE  
TRANSPORT CANADA  
AMO No. 65-94

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

AUM 1

MSB HC-067 Emergency Lever  
Modification Carried Out

# AIR TIME AND

[illegible]

# ENGINEERING RECORD

3

## INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER

ed. dlv  
Chart 5  
key, dlv  
screen  
12 SB400E  
viscous Added

Ground Run and leak checked OK  
Tire Pressures Adjusted

AVIATION UNLIMITED MAINTENANCE  
TRANSPORT CANADA  
AMO No. 65-94

Pilots window  
LATCH REPLACED

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

*[Signature]* AUM 1

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD			91	2	
MAY 11 2011	0		91	2	<p><b>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</b></p> <p>Date: May 11, 2011  Registration: C-GXMC  Type: Diamond DA40  S/N: 40-1079  TTSN: 91.2 hrs Garmin Hobbs</p> <p>AVIATION UNLIMITED MAINTENANCE INC.   Transport Canada AMO 65-94</p> <p>A 100hr/annual inspection &amp; servicing was performed in accordance with CAR625.86 appendix B &amp; C using the manufacturer's maintenance manual as a guide  A Motostat was performed, compressions 75/80 77/80 73/80 77/80  Oil and filter changed, oil samples taken, oil filter element and suction screen inspected in accordance with LYC SB 480E - no contaminants found, Aeroshell W15W50 added  AD2008-14-07 LYC SB342E fuel injection lines and clamping completed, no faults found at this time</p> <p>Inspection findings/snags/rectifications:  Cyl #1 oil return line rubber coupling oil wet - check tightened hose  White powder substance all over engine - washed engine</p> <p>THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.</p> <p style="text-align: right;"><i>[Signature]</i> <b>AUM 1</b></p>
					<p>Date: May 11, 2011  Registration: C-GXMC  Type: Diamond DA40  S/N: 40-1079  TTSN: 91.2 hrs Garmin Hobbs</p> <p>AVIATION UNLIMITED MAINTENANCE INC.   Transport Canada AMO 65-94</p> <p>A 100hr/annual inspection &amp; servicing was performed in accordance with CAR625.86 appendix B &amp; C using the manufacturer's maintenance manual as a guide  Prop lubed with Aeroshell #6</p> <p>Inspection findings/snags/rectifications:  Prop blade leading edges rough - lightly dressed blades smooth</p> <p>THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.</p> <p style="text-align: right;"><i>[Signature]</i> <b>AUM 1</b></p>

SEP 20 2011

		GARMIN HOBBS	SEP 20 2011	118.1
SEP 20 2011		<p>Ground Run - Checked Idle Mixture Settings  Check MAGNETO TIMING - FOUND 1H MAG @ 27° BTC  RH MAG @ 25° BTC. ADJUSTED MAGNETOS TO 25° BTC  FOUND Idle RPM 730-740 WITH 90 RPM INCREASE  Idle ADJUSTED TO 820 RPM WITH 30 RPM INCREASE</p>		

MAR 13 2012

123 1 GARMIN HOBBS

123 1 CARRIED FORWARD



# ENGINEERING RECORD

4

## INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER

ELT MODEL ADTEX ME406  
S/N 188-07608  
ELT CAPACITY TEST  
HAS THE ELT BEEN RECHARGED  
WITH CAPACITY ADAPTER  
BATTERY CHECK DATE MAR 2015  
ELT CHECK DATE MAY 2012

COMPASS Standard

FOR	N	30	60	90	120	150
STEER	001	31	60	91	121	152
FOR	S	210	240	270	300	330
STEER	181	210	241	270	300	330

Date: May 11, 2011  
Registration: C-GXMC  
Type: Diamond DA40  
S/N: 40-1079  
TTSN: 91.2 hrs Garmin Hobbs



A 100hr/annual inspection & servicing was performed in accordance with CAR625.86 appendix B & C using the manufacturer's maintenance manual as a guide  
Compass swing performed, new deviation card installed  
AD CF90-03R3 Exhaust type heater inspection - completed, no faults found at this time  
Battery capacity test performed, battery reconditioned and reinstalled  
ME406 ELT s/n 188-07608 removed, sent to Hitech Avionics for recertification PO# 08042, reinstalled and tested with remote cockpit switch, ELT battery due March 2015  
Fire extinguisher inspection completed, weight 2lb 3.4oz min 2lb, pressure green - serviceable at this time  
First aid kit inspected, like a "Type A" kit, serviceable at this time  
Emergency battery due March 2012  
EASA AD 2009-016, MSB 40-046/2 Nose gear inspection completed, no faults found at this time  
EASA AD 2010-0235 MSB 40-070 Rear passenger door retaining bracket replacement - N/A by S/N

### Inspection findings/snags/rectifications:

LH fwd nav light INOP - lamp replaced, function check OK  
Fuel cap o-rings dirty - cleaned  
Fuel stains on LH & RH fuel tanks around sump drains & inboard fuel level sender - stains cleaned  
Fuel stains around LH outboard fuel level sender - stains cleaned  
Stall port/line full of water - stall port/line blown dry  
LH passenger heater hose disconnected - hose reconnected

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

*[Signature]*

AUM 1

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

*[Signature]*

AUM 1

AVIATION UNLIMITED MAINTENANCE  
TRANSPORT CANADA  
AMO No. 65-94



Aircraft: C-GXMC

Buttonville Airport, Markham, ON  
buttonville@fieldav.com 416-802-5233

Work order: B63737

Carried out 24 month altimeter, transponder & static system recertification to 20,000 ft IAW CAR Std 571, Appendix B & F. Static system leak test meets minimum requirements. Altimeter PFD/ADC P/N 011-00882-00 S/N 47808730 Altimeter Standby P/N 5934PD-3 S/N 471987 Transponder P/N 011-00779-10 S/N 89108360

THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS. FAEL COMPANY APPROVAL No. 13-74.

DATE: 13 March 2012

SIGN

*[Signature]*



## AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD			123	7	<p><b>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</b></p> <p>Date: March 15, 2012  Registration: C-GXMC  Type: Diamond DA40XLS  S/N: 40.1079  TTAF: 123.7hrs Garmin Hobbs</p> <p>Aviation Unlimited Maintenance Inc.  Transport Canada AMO 65-94</p> <p>Main battery found dead, recharged, capacity tested "FAIL" 46min, reconditioned, capacity tested "PASS" 57 min 95%, recharged &amp; reinstalled.</p> <p>THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.</p> <p><i>[Signature]</i> <b>AUM 1</b></p>
MAR 15 2012	0		123	7	
MAR 19 2012	0		123	7	<p>Date: March 19, 2012  Registration: C-GXMC  Type: Diamond DA40XLS  S/N: 40.1079  TTAF: 123.7hrs Garmin Hobbs</p> <p>Aviation Unlimited Maintenance Inc.  Transport Canada AMO 65-94</p> <p>LH &amp; RH wing leaking fuel from outboard tank electrical connection/fitting - removed fuel staining around areas, applied PRC adhesion promoter &amp; PRC to seal  LH wing bottom skin fuel stained aft of tank vent panel - cleaned &amp; buffed areas with Rolite, stain remains  LH &amp; RH wing inboard fuel tank leaking from electrical connection adjacent to fuel drain - cleaned area, applied PRC adhesion promoter &amp; PRC to seal  LH &amp; RH fuel drain panel, bottom skin &amp; gear leg fuel stained - buffed stains with Rolite, staining still present</p> <p>THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.</p> <p><i>[Signature]</i> <b>AUM 1</b></p>
MAR 23 2012	0		123	7	<p>Date: March 23, 2012  Registration: C-GXMC  Type: Diamond DA40XLS  S/N: 40-1079  TTAF: 123.7hrs</p> <p>Aviation Unlimited Maintenance Inc.  Transport Canada AMO 65-94</p> <p>A 100hr/Annual inspection and servicing has been performed in accordance with CAR 625.86 Appendix B &amp; C using the manufacturer's maintenance manual as a guide  A compass swing was performed, new deviation card installed  ELT p/n 453-6603 s/n 188-07608 removed, sent to High Tech Avionics for recert w/o# 12108, reinstalled &amp; tested with remote cockpit switch  ELT battery next due Mar 2015  Fire extinguisher p/n A620 s/n ZR-933398 inspected, weight 2lb 3.4oz min 2lb, pressure green serviceable at this time  First Aid kit inspected, like a "Type A" kit, serviceable at this time  EASA AD 2009-016 MSB40-046/3 Nose gear inspection completed, no cracks found at this time  EASA AD 2010-0235R1 MSB 40-070 Rear passenger door retaining bracket replacement - N/A by S/N</p> <p>Inspection findings/rectifications/snags:  Passenger door open mechanism/button/pin squeaking - lubricated mechanism</p> <p>Date: March 23, 2012  Registration: C-GXMC  Type: Diamond DA40XLS  S/N: 40-1079  TTAF: 123.7hrs</p> <p>Aviation Unlimited Maintenance Inc.  Transport Canada AMO 65-94</p> <p>A 100hr/Annual inspection and servicing has been performed in accordance with CAR 625.86 Appendix B &amp; C using the manufacturer's maintenance manual as a guide</p> <p>Inspection findings/rectifications/snags:  Prop spinner dirty inside - cleaned spinner</p> <p>THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.</p> <p><i>[Signature]</i> <b>AUM 1</b></p>

# ENGINEERING RECORD

5

## INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER

Date: March 15, 2012  
Registration: C-GXMC  
Type: Diamond DA40XLS  
S/N: 40.1079  
TTAF: 123.7hrs Garmin Hobbs



Replaced emergency battery, p/n D41-2560-93-00 installed

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

*[Signature]* **AUM 1**

RH copilot brake master cylinder bottom fitting hydraulic fluid wet - cleaned & check tightened  
Both brake reservoirs/pedal assemblies hydraulic fluid wet/sticky on bottom, reservoirs over  
serviced - cleaned

ELT Model: ME406  
S/N: 188-07608

ELT operation test has been checked in accordance with CAR571,  
Appendix G (d)

Battery expiry date: March 2015

ELT cert. Expiry date: March 23, 2013

### Standby Compass Swing

For	N	30	60	E	120	150
Steer	0	30	60	90	123	152
For	S	210	240	W	300	330
Steer	183	210	239	269	301	330

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.

*[Signature]* **AUM 1**

**AIR TIME AND**

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD			123	7	
MAR 23 2012					<p>Date: March 23, 2012  Registration: C-GXMC  Type: Diamond DA40XLS  S/N: 40-1079  TTAF: 123.7hrs</p> <p>A 100hr/Annual inspection and servicing has been performed in accordance with CAR 625.86 Appendix B &amp; C using the manufacturer's maintenance manual as a guide  Changed oil &amp; filter, took oil samples, inspected filter element &amp; suction screen in accordance with LYC SB 380E - no contaminants found. Added Aeroshell W15W50 oil  A Motostat was performed, compressions 74/80 75/80 64/80 77/80  AD CF90-03R3 Exhaust type heater inspection completed, see snags  AD 2011-26-04 LYC SB342F Fuel injection lines &amp; clamps completed, no faults found at this time  AD 2012-03-06 Avstar fuel servos - N/A, no record of repairs</p> <p>Inspection findings/rectifications/snags:  LH Mag firing @ 23° BTC - adjusted to 25° BTC per engine data plate  Bottom cyl #1 plug fouled - cleaned plug &amp; reinstalled  Throttle cable protective bootie adrift - reinstalled  Bottom rocker covers oil wet - check tightened all rocker cover screws  Exhaust muff shroud missing 2 screws - replaced screws  Tail pipe support rubber hanger is torn - replaced rubber hanger support</p> <p>THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.</p> <p><i>[Signature]</i> AUM 1</p>
MAR 29 2012			123	7	<p>Date: March 29, 2012  Registration: C-GXMC  Type: Diamond DA40XLS  S/N: 40.1079  TTAF: 123.7hrs Garmin Hobbs</p> <p>Repaired minor pitting on LH wing leading edge &amp; refinished as required.</p> <p>THE DESCRIBED MAINTENANCE HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE AIRWORTHINESS REQUIREMENTS.</p> <p><i>[Signature]</i> AUM 1</p>
Apr 16/12			124	3	
					CARRIED FORWARD

# ENGINEERING RECORD

6

## INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER

April 16, 2012

TTSN: 124.3

G-XMC  
C-BORG

Aircraft opened and inspected for a "Pre-purchase inspection"  
Engine oil filter replaced, oil filter examined for signs of metal, none found.  
Cylinder compression check completed; 1) 77/80, 2) 74/80, 3) 75/80, 4) 78/80.  
All four cylinder rocker cover gaskets replaced.  
Cylinder #3 intake tube "O" ring and flange gasket replaced.  
Left magneto removed, breaker point cam replaced, internal timing re-set, magneto re-installed and re-timed to engine.  
Exhaust system removed, all slip joints lubricated, exhaust system reinstalled with new gaskets.  
Propeller forward bulkhead wear tapes installed.  
Propeller blades painted as required.  
Aircraft de-fueled for <sup>left</sup> wing removal.  
Left wing removed and fuel tank removed from wing. Both fuel quantity probes removed from tanks, threads re-cut, probes re-sealed and installed. Tanks re-installed in wing, wing re-installed on aircraft. Tank re-fueled no leaks noted, wing inspection covers re-installed.

I have carried out an independent check of the flight controls affected by the work accomplished.

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

*[Signature]*

*[Signature]*

348208

# AIR TIME AND

[illegible]

# ENGINEERING RECORD

7

## INSPECTION, REPAIRS & REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER

Aircraft C-GXMC

Type: DA40-180

*AIRFRAME*

S/N: 40.1079

TTSN: 154.4

13-Jul-12

On run up alternator circuit breaker popped and would not re set. Alternator removed and Sent to AAE for repairs. Installed tested serviceable.

Alternate air valve body and cable attach fitting found u/s. Replaced with new.

The described maintenance has been performed in accordance with the applicable airworthiness requirements.

Chris Jackson M428369

*AIRFRAME TECH. RECORD*

S/N: 40.935

C-GXMC

DA-40-180

S/N: 40.1079

18-Jul-12

Oil and filter changed. Old filter inspected no contamination found. Phillips 20w50 added.

Run up and leak check completed.

The described maintenance has been performed in accordance with the applicable airworthiness requirements.

Chris Jackson M428369

Registration: C-GXMC

Date: 4 October 2012



DUCEY AVIONICS LTD.

- Removed transponder p/n 011-00779-10 s/n 89108360 and installed exchange p/n 011-00779-10 s/n 89109647. Ground tested system serviceable.  
- Reference Ducey Avionics Ltd. work order A6305.



END  
The described maintenance has been performed in accordance with the applicable airworthiness requirements.

*Lincoln*

**1682833 Alberta Ltd.**

**Maintenance Work Report DIAMOND 40 15076757 1079 of**  
**Aug 29, 2012 C-GEFC TAFT 222.6 Journey Logbook**

1. Engine oil and filter changed with new. Phillips 20w50 added.  
Engine run up normal. Leak check carried out. No leaks detected.  
W.O. # XMO 14/09/2012

"The maintenance described has been performed in accordance with the applicable airworthiness requirements."

Chris Jackson/License #M428369

**1682833 Alberta Ltd.**

**Maintenance Work Report DIAMOND 40.1097**  
**APRIL 26, 2013 C-GXMC TAFT 264.6**

- Annual inspection completed IAW CARs 625 App B and C part I. Completed. Using Diamond checklist as a guide.
  - CF90-03R2 Heat muff inspection completed. No faults Found
  - AWD 2011-26-04 Externally mounted fuel injector line inspection Due. Completed, no faults found.
  - Engine oil and filter changed with new. Phillips 20w50 added.
  - ELT recertification completed by Ducey Avionics. Installed, Tested, normal results received.
  - Compass calibration completed. New deviation card installed.
  - Forward door lock barrel u/s. Replaced.
- Maintenance ground run and leak check completed. No leaks detected.  
W.O. # XMC 26/04/2013

"The maintenance described has been performed in accordance with the applicable airworthiness requirements."

Chris Jackson/License #M428369

## AIR TIME AND

[illegible]

## 3D AIRCRAFT SERVICES

Hangar 51 Cooking Lake Airport  
780-922-2842

17 Apr 2014

TAFT: 345.1

Registration C-GXMC

Aircraft DA-40

Serial Number 40.1079

1. Annual inspection completed IAW CARs 625 App B using Diamond inspection checklist.
2. Compass calibration completed. New deviation card installed.
3. Fire extinguisher due for 6 year inspection. Completed by Ordo's Fire Services. Installed, serviceable.
4. First aid kit inspected. Unopened.
5. CF90-03R2 Heat muff inspection completed.
6. Wheel bearings cleaned, inspected, lubed and installed serviceable.
7. Remote ELT switch battery replaced.
8. Brake linings u/s. Replaced.
9. ELT annual recertification completed by Ducey Avionics. Installed and tested. Normal results received.
10. Aircraft main battery capacity tested at 49% - recommend replacement.
11. Emergency battery pack D41-2560-93-00 requires replacement due to age - Parts on order

The maintenance described has been performed in accordance with the applicable airworthiness requirements.

Chris Jackson M428369

CARRIED FORWARD



## INSPECTION, REPAIRS &amp; REPLACEMENT

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

SIGNATURE

LICENCE  
NUMBER**3D AIRCRAFT SERVICES**

Registration C-GXMC

Aircraft DA42XLS

Serial Number 40.1079

1. Oil and filter change completed. Phillips 20w50 added.
2. Right aft nav lamp replaced.

The maintenance described has been performed in accordance with the applicable airworthiness requirements.

Chris Jackson M428369

**3D AIRCRAFT SERVICES**

27 Feb 2014

TAFT

Hangar 51 Cooking Lake Airport  
780-922-2842

Registration C-GXMC

Aircraft DA-40

Serial Number 40.1079

1. 50 Hour Inspection IAW Diamond DA-40 manual completed as requested.
2. Oil and filter replacement - 7 qts Phillips X/C 20W50 added
3. Alternate air control cable repaired by straightening attach end - operational check performed.
4. Aircraft belly and wing leading edges cleaned of oil and dead bugs.
14. Post inspection run and leak check performed - no leaks found.

The maintenance described has been performed in accordance with the applicable airworthiness requirements.

G. Bouchuer M248913

For	N	030	060	E	120	150
Steer	359	27	56	86	116	146
For	S	210	240	270	300	330
Steer	177	205	236	265	296	328
Radios:ON				Date: Apr 2014		
C-GXMC						

**3D AIRCRAFT SERVICES**

7 May 2014

TAFT:

Hangar 51 Cooking Lake Airport  
780-922-2842

Journey Log

Registration C-GXMC

Aircraft DA-40

Serial Number 40.1079

1. Aircraft main battery replaced with new. ConcordeRG24-15M
2. Emergency back up battery replaced.

The maintenance described has been performed in accordance with the applicable airworthiness requirements.

Chris Jackson M428369

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLET.</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

Aircraft C-CXMC

Type: DA40

S/n: 40.1079

TTSN: 385.4

WO# XMC1406

06-Jun-14

Edmonton Flying Club

AMO 269-91

Ph 780-454-4531



As part of pre-purchase inspection oil and filter changed, filter inspected. Serviced with 8 quarts Phillips 20W50.

Note: sump screen not inspected due Tanis.

PowerFlow exhaust tailpipe rubber strap noted torn and hardware loose; strap attached and secured. Note: temporary repair.

Nose wheel noted to be loose; nose wheel axle bolt tightened IAW AMM.

Idle mixture adjusted 6 clicks lean. Ground run/leak check satisfactory.

A list of defects has been provided to operator. Details on file.

The described maintenance has been performed in accordance with the applicable airworthiness requirements.

E. Davidge

ACA-10  
AMO 269-91

JUN 25, 2014			386	1	
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## 3D AIRCRAFT SERVICES

June 25, 2014

TAFT: 386.1

Hangar 51 Cooking Lake Airport

Airframe Logbook

780-922-2842

Registration C-GXMC

Aircraft DA-40

Serial Number 40.1079

1. Remove #2 & 3 cylinders due to low compression. Sent to AAE for repairs. AAE WO #11507. Installed after repairs.

Run up completed. No leaks detected.

2. ICA inspection for Powerflow exhaust completed.

3. ICA inspection for AMSAFE seatbelts completed.

The maintenance described has been performed in accordance with the applicable airworthiness requirements.

Chris Jackson M428369

A dual inspection of the Prop and Mixture engine controls was completed. G. Boucher M248913

02 Sep, 2014 Tested Airspeed and VSI IAW MM section 7.6.3.  
 Tested Altimeter SN 471987 to 20000 feet IAW CARs 571 Appendix "B" (b).  
 Tested Air Data Computer SN 47803730 to 20000 feet IAW CARs 571 Appendix "B" (b).  
 Tested Pitot/Static system IAW CARs 571 Appendix "B" (a).  
 Tested Transponder SN 89109647 and system IAW CARs 571 appendix "F" (a-d).  
 Peace Hills Aviation Ltd. AMO 69-05. C-GXMC WO 4024.  
 The maintenance described above has been completed IAW the applicable standards of airworthiness.

*Frank Wank* 363780



CARRIED FORWARD

# ENGINEERING RECORD

9

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

SIGNATURE

LICENCE  
NUMBER

## 3D AIRCRAFT SERVICES

Hangar 51 Cooking Lake Airport  
780-922-2842

25 June 2014

Journey Log

TAF: 386.1

Registration **C-GXMC**

Aircraft **DA-40**

Serial Number **40.1079**

1. All G1000 slow blow fuses replaced with new IAW Garmin ICA

The maintenance described has been performed in accordance with the applicable airworthiness requirements.

Chris Jackson M428369

ACA-10  
AMO 269-91

Missed entry  
Received by email  
Printed & inserted  
by E. Davidge  
8 Sep 2014

Aircraft: C-GXMC Type: DA40  
S/N: 40.1079 2014-09-10  
TTSN: Engine: Prop:  
407.9 407.9 407.9



Edmonton Flying Club  
Maintenance Dept.  
AMO 269-91

WO#XMC1408

### Logbook Entry:

WO Item # Description/Rectification  
12 GFC 700 Flap in motion discrete input function check completed, no fault found.  
15 G1000 and GFC 700 visual inspection completed, no faults found.  
16 GSA 81 servo greasing completed. No additional servicing required IAW ICA.  
17 GSM 85 servo mounts slip clutch torques inspected and adjusted as required.  
25 4 "Go Pro" mounts removed from A/C: R/H fuselage, horizontal stabilizer, top of canopy and bottom of fuselage.  
28 Minor fuel staining noted on L/H wing; wing removed, fuel tanks removed and pressure tested-found I/B fuel sender leaking, sealed threads on fuel sender, tanks reinstalled with new O-ring at fuel filler flange. Wing reinstalled. Fuel tank filled, no leaks noted.

32 Both main landing gear tires and tubes replaced, Goodyear p/n 301-249-438 & 302-246-401.  
33 Both aft rudder cables replaced due wear. Stainless steel cables as per original.  
42,46,48 Flap pre-load tension adjusted to spec, aileron travels adjusted to spec, pitot-static leak check completed. Independent checks completed on all disturbed flight controls. Additional details on file.

"The described maintenance has been performed in accordance with the applicable airworthiness requirements."

E. Davidge

ACA-10  
AMO 269-91

Aircraft: C-GXMC Type: DA40  
S/N: 40.1079 2014-09-11



Edmonton Flying Club  
Maintenance Dept.  
AMO 269-91

TTSN: Engine: Prop:  
407.9 407.9 407.9

WO#XMC1408

Garmin Hobbs: 410.4 Airframe Hobbs: 496.5 Logbook Entry:

WO Item # Description/Rectification  
1 Lower cowling heat resistant paint noted to be deteriorated; paint repaired as required.  
2 Power Flow Exhaust ICA completed 100 hour/Annual structural inspection IAW PFS-15250-00 Rev E, 5.2.2.  
4,5,6,7,35 #2 cylinder baffle crack repaired w/ silicone, dipstick tube tightened, engine compartment scat hose replaced as reqd.  
18,19,20,21 Completed 100 hour & 100 hour drain hole inspections, 50/100 hour Lycoming inspections IAW AMM 6.02.01 Rev 7 & Lycoming IO-360 M1A Maintenance and O/H Manual July 2008, section 5. Prop inspected & serviced IAW Hartzell Manual 145, R 5.  
22,36-39 L/H magneto timing adjusted to spec, NLG steering friction adjusted to spec, Elastomer spring upper nut @ rod end tightened, throttle quadrant tensioner repaired, #1 cylinder EGT harness repaired w/ fusion tape.  
40,41, 57 Researched & verified that no Diamond Mandatory Service Bulletins are due at this time, Canadian and FAA Airworthiness Directives researched and verified that none are due at this time, completed Lycoming MSB 342G fuel line inspection -no defects noted.

58 This A/C conforms with FAA Type Certificate Data Sheet No. A47CE Rev 12 as modified by the following Supplemental Type Certificates: SA02476CH-D, SA01254WI, SA01444WI-D, SA01480WI-D, SA03281AT & SA01918LA.

Independent checks completed on all disturbed engine controls. Additional details on file.

"The described maintenance has been performed in accordance with the applicable airworthiness requirements."

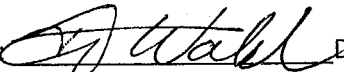
E. Davidge

ACA-10  
AMO 269-91

I certify that this aircraft Diamond DA40 s/n 40.1079 has been inspected IAW an Annual/100 hour inspection and is

4.135225510.11

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		<b>ENGINEERING RECORD</b> <u>NOTE:</u> USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					
	N141HL	Diamond DA-40-XLS	S/N: 40.1079		
	I find this aircraft meets the requirements for the certificate requested, and have issued a Standard Airworthiness Certificate dated: October 01, 2014. The next Annual Inspection is due on October 31, 2015.				
	Signed  DEN-FSDO-NM03 Joseph T. (JT) Walsh ASI				

N141HL  
HOBBS: 549.5  
WO: 34426



Diamond DA-40  
Airframe S/N: 1079  
DATE: 12/03/2014

## AIRFRAME ENTRY, PG. 1

Accomplished the following maintenance in accordance with the Diamond DA-40 AMM 80-00-09.

- Removed engine starter P/N 149-24LS S/N F4L-460902 and installed new starter P/N 149-24LS S/N F4L-361414. Ops check normal.

All maintenance performed on this aircraft was performed in accordance with current regulations of the FAA and was determined to be in an airworthy condition and is approved for return to service with respect to the work performed. Pertinent details are on file at this repair station under the above work order.

Signature:

**WEST STAR AVIATION, INC.**  
796 Heritage Way  
Grand Junction, CO 81506 (970) 243-7500

FAA CERTIFIED REPAIR STATION  
WTXR13J

CARRIED FORWARD

## ENGINEERING RECORD

10

ENTRIES.

Rifle Aircraft Maintenance, Inc.  
AirframeLICENCE  
NUMBERN#:N141HL  
Work Order: 5643  
Make:DIAMOND  
Model:DA40  
Date:3/5/2015  
HOBBS: 636.9  
Tach:510.2Eng TT: 51.02  
Eng TMSOH:  
Prop TT: 510.2  
Prop TMSOH:  
ACTT:510.2  
S/N:40.1079

Accomplished Annual/100 hour inspection per FAR 43, Appendix d, and a checklist. Lubed control hinges and torque rod contact points. Complied with all manufacturer's service bulletin instructions. Researched ADs through T-Data 2015-03. Complied with AD 09-10-04, nose landing gear pivot axle per AD para (f)(4). Drilled out and replaced numerous fasteners in wings and fuselage. Charged oxygen bottle. Verified operation of all lights, internal and external, tested ELT per FAR 91.207(d), batteries next due 4-2016. Removed nose wheel speed fairing, weight and balance change negligible. I certify I have inspected this airframe in accordance with an Annual/100 hour inspection and determined it to be in an airworthy condition.

The above-described maintenance has been accomplished in accordance with current FAR's, or Mfg's Data/Maintenance Manuals, and was determined to be in an airworthy condition with respect to the work performed.

Date:3/5/2015

Signed:

Kenneth Shetler A&amp;P 3269341 1A

Rifle Aircraft Maintenance, Inc.  
AirframeN#:N141HL  
Work Order: 5765  
Make:DIAMOND  
Model:DA40  
Date:8/18/2015  
HOBBS: 775.2  
Tach:610.5Eng TT: 610.5  
Eng TMSOH:  
Prop TT: 610.5  
Prop TMSOH:  
ACTT:610.5  
S/N:40-1079

Accomplished 100 hour/ Annual Inspection per FAR 43, Appendix D, and a checklist. Replaced strobe flash tube on RH wing with p/n 02-0250276-00. Tested all interior and exterior lights. Replaced brake linings on R&L main landing gear with Cleveland p/n 066-10600. Replaced broken strap on exhaust muffler mount. Lubricated rudder pedal slide screw and tube. Checked tire inflation, lubricated all control hinges, cables, pulleys. Researched ADs through T-Data 2015-16, all current or PCW. Ground ran engine, checked all systems, function checks all normal. Tested ELT per FAR 91.207(d), ELT batteries due 4/2016.

I certify I have inspected this airframe in accordance with a 100 hour/Annual Inspection and determined it to be in an airworthy condition.

The above-described maintenance has been accomplished in accordance with current FAR's, or Mfg's Data/Maintenance Manuals, and was determined to be in an airworthy condition with respect to the work performed.

Date:8/18/2015

Signed:

Kenneth Shetler A&amp;P 3269341 1A

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

N141HL  
HOBBS: 841.9  
WO: 37659



Diamond DA-40  
Airframe S/N: 1079  
DATE: 10/16/2015

AIRFRAME ENTRY, PG. 1

**Accomplished the following maintenance in accordance with the DA-40 AMM 32-40-00.**

- Removed R/H MLG wheel assembly and broke down wheel to removed tire P/N 156E66B1 and tube P/N 06-05300-1. Built up wheel assembly with serviceable original tire P/N 156E66B1 and new tube P/N 06-05300-1. Installed build up wheel assembly with no leaks noted, ops check normal.

All maintenance performed on this aircraft was performed in accordance with current regulations of the FAA and was determined to be in an airworthy condition and is approved for return to service with respect to the work performed. Pertinent details are on file at this repair station under the above work order.

Signature   
WEST STAR AVIATION, INC.  
796 Heritage Way  
Grand Junction, CO 81506 (970) 243-7500

FAA CERTIFIED REPAIR STATION  
**WTXR173J**

**N141HL      AIRFRAME      DIAMOND      DA 40   S/N 40.1079**  
**DEC 23, 2015   Tach 721.6      TTAF 721.6**

Tested ELT in accordance with FAR 91.207 (d), batteries expire April 2016. Cleaned and greased wheel bearings. Serviced engine air filter element. Cleaned debris from oil cooler. Tightened hose clamps for leaking fuel line in right wing. Replaced all 4 brake liners P/N RA66-106. Mixture control arm was binding on a tie wrap, replaced tie wrap and repositioned. Inspected and cleaned fuel strainer.

**-Complied with I/C/A for Powerflow exhaust system.**

- Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.
- Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.
- Disassembled exhaust system, inspected and reassembled slip joints with high temp anti-seize.

**-Complied with AD09-10-04 Nose landing gear leg and pivot axle.** Upon inspection, P/N looks to be the affected P/N. Inspected the nose landing gear leg for cracks, next due 200 hours or 12 months, whichever comes first. I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be airworthy. Hector Brown **AP2731870IA**

*Jan 8, 2016   Tach 724   Replaced Voltage regulator with new VR 2000-28-1 regulator. **AP2731870***

**N141HL      AIRFRAME      DIAMOND DA 40      S/N 40.1079**  
**March 16, 2016      Tach 821.6      TTAF 821.6**

Emergency battery, P/N D41-2560-93-00, due May 2016. Replaced ELT batteries and tested ELT in accordance with FAR 91.207 (d) and Artex ME406 Maintenance Manual, Rev. V1. Batteries expire April 2023. Serviced engine air filter element. Replaced all 4 brake liners P/N RA66-106. Inspected and cleaned fuel strainer. Replaced both main tires tubes, Michelin 15x600x6 tires. Lubed prop and cleaned spinner.

**-Complied with I/C/A for Power Flow Exhaust System:**

- Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.
- Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.

I certify that this aircraft has been inspected in accordance with a 100 hour inspection and was determined to be airworthy. Hector Brown **AP2731870IA**

CARRIED FORWARD

MAKE: Diamond Aircraft Ind  
MODEL: Da 40  
S/N: 40.1079  
REG. NO: N141HL  
WORK ORDER: 32305

**Depot Avionics, Inc.**  
Repair Station No. GM6R566N  
2550 State Ave  
San Luis Valley Regional Airport  
Alamosa, CO 81101  
Phone: 719-589-6777

DATE: 04 April, 2016  
A/C TSN:  
HOBBS: 1096.8

11

### Airframe Entries

(1) G1000 has Heading Failure.... Confirmed problem. Checked wiring and connectors. Replaced bad GMU-44 with GMU-44 S/N 4750402 and ground tested system for proper operation.

DATE: 04 April, 2016

SIGNED:

Mark Colman  
Certified Repair Station No. GM6R566N

Work Order: 32305

Printed by EBis 3 (datcomedia.com)

**N141HL**      **AIRFRAME**      **DIAMOND DA 40**      **S/N 40.1079**  
**May 28, 2016**      **Tach 911.7**      **TTAF 911.7**

Tested both Am-Safe seatbelt EMA's with Am-Safe tool, P/N 508668-201, S/N 000743, Calibration Date: May 18, 2016 - Next test due May 2017. EMA replacement: April 2017. Inflator cylinder replacement: April 2022.

**N141HL**      **AIRFRAME**      **DIAMOND DA 40**      **S/N 40.1079**  
**June 2, 2016**      **Tach 922.6**      **TTAF 922.6**

Tested ELT in accordance with FAR 91.207 (d) and Artex ME406 Maintenance Manual, Rev. V1 - batteries expire April 2023. Replaced ELT Remote Switch Battery, P/N 2CR11108, next due June 2018. Replaced emergency battery pack, P/N D60-2560-91-00, next due June 2018. Serviced engine air filter element. Replaced all 4 brake liners P/N RA66-106. Inspected and cleaned fuel strainer. Checked magnetic compass, no adjustment needed. Inspected alternator bearings and brushes.

-Complied with I/C/A for Power Flow Exhaust System: Removed exhaust system.

-Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.

-Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.

I certify that this aircraft has been inspected in accordance with a 100-hour inspection and was determined to be airworthy. Hector Brown AP27318701A

N141HL  
HOBBS: 1217.5  
WO: 39990

**WEST STAR**  
AVIATION

Diamond DA-40  
Airframe S/N: 1079  
DATE: 06/21/2016

AIRFRAME ENTRY, PG. 1

#### Accomplished the following maintenance in accordance with the DA-40 AMM 32-40-00.

- Removed L/H MLG wheel assembly and broke down wheel to removed tire P/N 070-449-0 S/N 5327S00119 and tube P/N 06-05300-1. Built up wheel assembly with customer supplied tire and tube. Tire P/N 156E66B1S/N 51985845 and new tube P/N 06-05300-1. Installed build up wheel assembly with no leaks noted, ops check normal.

All maintenance performed on this aircraft was performed in accordance with current regulations of the FAA and was determined to be in an airworthy condition and is approved for return to service with respect to the work performed. Pertinent details are on file at this repair station under the above work order.

Signature

WEST STAR AVIATION, INC.  
796 Heritage Way  
Grand Junction, CO 81506 (970) 243-7500

FAA CERTIFIED REPAIR STATION  
WTR173J

N141HL AIRFRAME DIAMOND DA 40 S/N 40.1079

August 24, 2016

Tach 1023.0

TTAF 1023.0

Tested ELT in accordance with FAR 91.207 (d) and Artex ME406 Maintenance Manual, Rev. V1 – batteries expire April 2023. Serviced engine air filter element. Inspected and cleaned fuel strainer. Cleaned and greased wheel bearings. Replaced nose tire with new 5.00x5 6ply Condor Tire. Replaced all 4 brake liners, P/N RA66-106. Replaced broken aux wire off alternator terminal and reconnected.

-Complied with 1000 hr Essential Buss Check. Tightened loose screws on numerous circuit breakers.

-Complied with 1000 hr Bonding System and Static Discharge Check.

-Complied with 1000 hr check of NLG as per RSB10-082-1, by inspection of nose landing gear elastomeric pack center tube for wear. No damage found.

-Complied with I/C/A for Power Flow Exhaust System:

-Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.

-Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.

I certify that this aircraft has been inspected in accordance with a 100-hour inspection and was determined to be airworthy. Hector Brown AP27318701A

FOR COMPLETE

Diamond / DA40

Tach:1044.0 Hobbs:1356.6

N141HL

September 27, 2016

Transponder Make/Model Garmin / GTX33, S.N. 89109647 in this A/C has been inspected IAW Title 14 CFR 91.413 and found to comply with the specifications of Title 14 CFR 43 App. F.

Air Data Computer Make/Model Garmin / GDC74A, S.N. 47808730,

Altimeter #2 Make/Model United / 5934PD-3, S.N. 471987 and the

Static System have been inspected IAW Title 14 CFR 91.411 and found to comply with the specifications of Title 14 CFR 43 App E.

Details on file MTSWO 60935

CRS TJJR625X

Alan Spencer - Inspector

Date

Mobile Transponder Services, LLC

6015 W Condor Rd, Peyton, CO 80831

N141HL AIRFRAME DIAMOND DA 40 S/N 40.1079

December 16, 2016

Tach 1095.9

TTAF 1095.9

Tested ELT in accordance with FAR 91.207 (d) and Artex ME406 Maintenance Manual, Rev. V1 – batteries expire April 2023. Serviced engine air filter element. Inspected and cleaned fuel strainer. Cleaned and greased wheel bearings. Replaced right main tire with new 15x6.00x6, 6ply Condor Tire. Replaced all 4 brake liners, P/N RA66-106. Replaced left nav strobe, P/N A610.

-Complied with I/C/A for Power Flow Exhaust System:

-Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.

-Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.

-Disassembled exhaust system, inspected and reassembled slip joints with high temp anti-seize.

-Reinstalled exhaust with all new gaskets, P/N 77611.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be airworthy. Hector Brown AP27318701A

N141HL

AIRFRAME

DIAMOND DA 40

S/N 40.1079

Dec 6, 2016

Tach 1095.9

TTAF 1095.9

Replaced timing belt for rudder pedal actuator, P/N 111-3M-04.

Hector Brown AP27318701A

N141HL AIRFRAME DIAMOND DA 40 S/N 40.1079

June 24, 2017 Tach 1195.3 TTAF 1195.3

Tested ELT in accordance with FAR 91.207 (d) and Artex ME406 Maintenance Manual, Rev. V1 – batteries expire April 2023. Serviced engine air filter element. Inspected and cleaned fuel strainer. Cleaned and greased wheel bearings. Replaced all 4 brake liners, P/N RA66-106. Replaced alternate air box. Replaced inlet duct, P/N D41-7166-20-31. Replaced flange, P/N D41-7166-20-33. Re-installed EMA with P/N 508358-421, S/N – RA21JUNE17-1. Tested with Amsafe seat belt EMA with Amsafe tool, P/N 508668-201, S/N 00915, Calibration Date: June 21, 2017. Next test due June 2018. EMA replacement: June 2022. Inflator cylinder replacement: Nov 2021.

-Complied with I/C/A for Power Flow Exhaust System:

-Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.

-Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.

-Disassembled exhaust system, inspected and reassembled slip joints with high temp anti-seize.

-Reinstalled exhaust with all new gaskets, P/N 77611.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be airworthy. Hector Brown AP27318701A



N141HL AIRFRAME DIAMOND DA 40  
May 20, 2017 Tach 1190.1 TTAF 1190.1

S/N 40.1079

Replaced nose tire tube with new 5.00x5 tube. Replaced stall horn, P/N 0513602-1. Installed new Whelen power supply, P/N 11-08306. Hector Brown AP2731870IA

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LICENCE  
NUMBER

N141HL AIRFRAME DIAMOND DA 40  
June 24, 2017 Tach 1195.3 TTAF 1195.3

S/N 40.1079

Replaced missing canopy grommet/bushing P/N DA4-5210-00-36. Replaced worn tail skid P/NDA4-5183-00-61. Hector Brown AP2731870

N141HL AIRFRAME DIAMOND DA 40  
Aug 18, 2017 Tach 1213.6 TTAF 1213.6

S/N 40.1079

Repaired minor crack in tail cone using DA40CPK Diamond composite repair kit as per chapter 15 of Diamond maintenance manual. Hector Brown AP2731870IA

N141HL AIRFRAME DIAMOND DA 40  
January 4, 2018 Tach 1295.6 TTAF 1295.6

S/N 40.1079

Tested ELT in accordance with FAR 91.207 (d) and Artex ME406 Maintenance Manual, Rev. V1 - batteries expire April 2023. Serviced engine air filter element. Inspected and cleaned fuel strainer. Cleaned and greased wheel bearings. Replaced all 4 brake liners, P/N RA66-106.

**-Complied with I/C/A for Power Flow Exhaust System:**

- Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.
- Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.
- Disassembled exhaust system, inspected and reassembled slip joints with high temp anti-seize.
- Reinstalled exhaust with all new gaskets, P/N 77611.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be airworthy. Hector Brown AP2731870IA

N141HL ENGINE LYCOMING IO-360-M1A  
January 4, 2018 Tach 1309.7 TT ENG 1309.7  
Installed new alternator, P/N ALU8521LS.  
Hector Brown AP2731870IA

S/N L-35117-51E

N141HL AIRFRAME DIAMOND DA 40  
Feb 13, 2018 Tach 1325.2 TTAF 1325.2

S/N 40.1079

Replaced left tire with new Michelin Airstop 15x6.0-6 tube.  
Amy Helm AP2815239IA

N141HL AIRFRAME DIAMOND DA 40  
June 4, 2018 Tach 1396.6 TTAF 1396.6

S/N 40.1079

Tested ELT in accordance with FAR 91.207 (d) and Artex ME406 Maintenance Manual, Rev. V1 - batteries expire April 2023. Serviced engine air filter element. Inspected and cleaned fuel strainer. Replaced main wheel bearings and races, P/N 13889 and 13836. Cleaned and greased nose wheel bearing. Replaced all 4 brake liners, P/N RA66-106. Topped off brake reservoir with 5606 fluid.

**-Complied with I/C/A for Power Flow Exhaust System:**

- Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.
- Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.
- Disassembled exhaust system, inspected and reassembled slip joints with high temp anti-seize.
- Reinstalled exhaust with all new gaskets, P/N 77611.

Tested both Amsafe seat belt EMA's with Amsafe tool, P/N 508668-201, S/N 00743. Next test due June 2019

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be airworthy. Hector Brown AP2731870IA

N141HL AIRFRAME DIAMOND DA 40 S/N 40.1079  
Oct 3, 2018 Tach 1496.3 TTAF 1496.3

Tested ELT in accordance with FAR 91.207 (d) and Artex ME406 Maintenance Manual, Rev. V1 – batteries expire April 2023. Serviced engine air filter element. Inspected and cleaned fuel strainer. Cleaned and greased wheel bearings with Mobile SHC 100 grease per Cleveland PRM 78. Replaced all 4 brake liners, P/N RA66-106. Replaced right tire Michelin 15x6.00x6. Replaced left strobe power supply with new Whelen 01-0770062-05.

**-Complied with I/C/A for Power Flow Exhaust System:**

- Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.
- Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.
- Disassembled exhaust system, inspected and reassembled slip joints with high temp anti-seize.
- Reinstalled exhaust with all new gaskets, P/N 77611.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be airworthy. Hector Brown AP2731870IA

N141HL AIRFRAME DIAMOND DA 40 S/N 40.1079  
Jan. 17, 2019 Tach 1545.6 TT ENG 1545.6

Replaced canopy lever, P/N DA4-5210-70-00. Replaced overhead map light assembly, P/N D60-3313-11-00-01. Hector Brown AP2731870IA

N141HL AIRFRAME DIAMOND DA 40 S/N 40.1079  
July 1, 2019 Tach 1597.1 TTAF 1597.1

Tested ELT in accordance with FAR 91.207 (d) and Artex ME406 Maintenance Manual, Rev. V1 – batteries expire April 2023. Serviced engine air filter element per JR instructions. Inspected and cleaned fuel strainer. Cleaned and greased wheel bearings with Mobile SHC 100 grease per Cleveland PRM 78. Cleaned bugs and debris from oil cooler. Replaced all 4 brake liners, P/N RA66-106. Replaced both brake disks P/N RA164-24400. Replaced left tire "Monster Retread" 15x6.00x6 P/N 072-449-0 and tube- Aeroclassic 15/6.00-6. Replaced attitude indicator emergency battery pack P/N D60-2560-91-00, next due 2yrs. Removed Hartzell composite propeller and installed overhauled MT 3 blade composite propeller P/N MTV-12-B/183-59b S/N 97324 per STC SA02292NY, filled out FAA form 337 and mailed in. Removed Hartzell governor and installed MT governor P/N P-680-23 per Diamond drawing C41-6126-00-00. Replaced governor cable attach bracket P/N C41-6126-00-04. Performed dynamic balance of prop/engine with Microvib II, balanced from .445 to .07. Inspected alternator brushes- 80% or better. Replaced Amsafe seatbelt EMU with new unit P/N 508358-421 MFG Nov 2018, replace or refurb in 7 years- Nov 2025. Tested both Amsafe front seat belt systems per Amsafe Instructions Doc #E510629 with Amsafe test tool P/N 508668-201 with last calibration date of 6/24/19.

**-Complied with I/C/A for Power Flow Exhaust System:**

- Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.
- Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.
- Disassembled exhaust system, inspected and reassembled slip joints with high temp anti-seize.
- Reinstalled exhaust with all new gaskets, P/N 77611.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be airworthy. Hector Brown AP2731870IA

CARRIED FORWARD

## ARAPAHOE AERO AVIONICS

12780 E Control Tower Rd Englewood, CO 80112 303.799.6289

N141HL Diamond DA-40 sn: 40.1079

June 27, 2018

Hobbs: 1854.3

Garmin G-1000 System ID # 228F6B3AA

Performed the **Software Update 0321.23** per Garmin STC Service Bulletin 1334 Rev. A dated October 2013) according to the G1000 Field Update Instructions, Diamond DA40 & DA 40 F document, Garmin P/N 190-00544-03 Revision 10. Software: Configuration 1 G1000 with GFC700 AFCS, WAAS, Extended Range Tanks, GFC700 Standard GDL-69A. (previous version 0321.22) Unlocked SVT, Charts, TAWS.

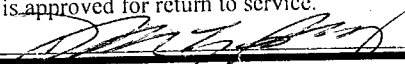
Installed new FAA Approved Flight Manual Supplement 190-00492-10 Rev. 8 in aircraft's Pilot Operating Handbook.

Performed the **G1000 configuration update** per the Configuration Update, EIS, (Garmin P/N

005-00400-80 revision 1 and **Garmin STC Service Bulletin No 1534A** dated May 5, 2015.

Note that the Configuration Update, EIS must be repeated each time the system software is reloaded

The aircraft and/or component identified above have 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: 

AV-04093

## ARAPAHOE AERO AVIONICS

12780 E Control Tower Rd Englewood, CO 80112 303.799.6289

N141HL Diamond DA-40 sn: 40.1079

June 27, 2018

Hobbs: 1854.3

Removed Garmin GTX-33 sn: 89109647 and GA-55 XM Antenna.

Installed new **Garmin GTX-345R with Internal WAAS GPS 011-03303-40 sn: 3EH420189** with **GA-37 WAAS**

**GPS Antenna 013-00245-00 sn: 17867**. The above equipment has been installed and ground checked in accordance

with the Appliance Manufacturers STC/AMI. Installation Manual Garmin GTX-345 190-00734-10 Rev. 10 dated

March 2018. **STC SA01714W1** Aircraft is on the AML for this STC. Master Drawing List No. 005-00734-04 Rev 11

(February/2018). See FAA Form 337 dated June 27, 2018 for details. **The Transponder test and inspection FAR**

**91.413 Part 43 Appendix F** was performed this date.

**The installed ADS-B OUT system has been shown to meet the equipment requirements of 14 CFR 91.277.** Other

than for regulatory periodic functional checks, maintenance of the GTX 345 is "on condition" only. Refer to the GTX

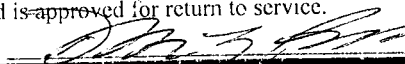
345 Maintenance Manual /Instructions for Continued Airworthiness (Garmin P/N 190-00734-11 Rev 6 Nov/2017).

A new FAA Approved Flight Manual Supplement (Garmin Document No. 190-00734-15 Rev 3 dated December 21,

2017) has been added to aircraft's Pilot Operating Handbook and remains with the aircraft. **Aircraft's Equipment List**

**and Weight and Balance have been amended.**

The aircraft and/or component identified above have 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: 

AV-04093

N141HL  
ENGINE TACH: 1666.5  
W/O: 49819



Diamond DA40  
Aircraft S/N: 40.1079  
DATE: 07-31-2019

AIRFRAME ENTRY, PG.1

Accomplished the following maintenance in accordance with the Lycoming IO-360 MOM 72-50-00.

- Changed engine oil and removed oil filter P/N AA48110-2. Cut open filter, no debris noted. Installed new filter P/N CH48110-1 and installed 7 quarts of X/C 20W50. Ran engine, leak check normal.

I certify that this aircraft has been inspected as required by 14CFR §91.409 (f) (3), and has been determined to be in an airworthy condition and is approved for return to service with regards to the work performed. Pertinent details are on file at this repair station under the above work order. A copy of this work order has been provided to the operator.

Signature 

WEST STAR AVIATION, INC.  
796 Heritage Way  
Grand Junction, CO 81506 (970) 243-7500

FAA CERTIFIED REPAIR STATION

WTXR173J

N141HL AIRFRAME DIAMOND DA 40 S/N 40.1079  
September 20, 2019 Tach 1694.4 TTAF 1694.4

Tested ELT in accordance with FAR 91.207 (d) and Artex ME406 Maintenance Manual, Rev. V1 - batteries expire April 2023. Serviced engine air filter element per JR instructions. Inspected and cleaned fuel strainer. Cleaned and greased wheel bearings with Mobile SHC 100 grease per Cleveland PRM 78. Replaced nose wheel bearings and races, P/N 08231 and 08125. Cleaned bugs and debris from oil cooler. Replaced all 4 brake liners, P/N RA66-106. Replaced starter, P/N 149-24LS. Cleaned debris from left fuel quick drain. Adjusted nose wheel steering tension.

**-Complied with I/C/A for Power Flow Exhaust System:**

- Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.
- Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.
- Disassembled exhaust system, inspected and reassembled slip joints with high temp anti-seize.
- Reinstalled exhaust with all new gaskets, P/N 77611.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be airworthy. Hector Brown AP2731870IA

N141HL AIRFRAME DIAMOND DA 40 S/N 40.1079  
Jan. 8, 2020 Tach 1793.8 TTAF 1793.8

Tested ELT in accordance with FAR 91.207 (d) and Artex ME406 Maintenance Manual, Rev. V1 - batteries expire April 2023. Serviced engine air filter element per JR instructions. Inspected and cleaned fuel strainer. Cleaned and greased wheel bearings with Mobile SHC 100 grease per Cleveland PRM 78. Cleaned bugs and debris from oil cooler. Replaced all 4 brake liners, P/N RA66-106. Repaired connection for instrument flood light. Replaced stall horn, P/N 0513602-1. Rotated left tire. Replaced right tire, P/N 072-449-0. Replaced flap indicator light, P/N T4.6-24/20.

**-Complied with I/C/A for Power Flow Exhaust System:**

- Visually inspected tail pipe insert. -Visually inspected all pipes and shroud.
- Visually inspected ball joint and checked for movement. -Visually inspected tail pipe hanger assembly.
- Disassembled exhaust system, inspected and reassembled slip joints with high temp anti-seize.
- Reinstalled exhaust with all new gaskets, P/N 77611.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be airworthy. Hector Brown AP2731870IA

**ARAPAHOE AERO**

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

N141HL Diamond DA40 S/N: 40.1079 Aircraft Total Time: 1888.8

7 April 2020 Tach: 1888.8

Completed **1000-hour Bonding Check** AMM Chapter 51-80-00, recorded measurements on table from service manual and placed in the aircraft records, cleaned areas as needed, replaced right inner wing static wick and rudder static wick. Completed **1000-hour Essential Buss Check** per service instructions chapter 4-00-0, no defects found. Installed a new wire between auxiliary post of alternator and 100-ohm resistor for the alternator out indication circuit. Operational check good.

Kevin Mosher A&P 3443784

w/o 41139

April 20 2020

N141HL

Diamond DA40 S/N 40.1079

Tach: 1889.3 ACTT: 1889.3



Erie Municipal Airport  
395 Airport Drive  
Erie, Colorado 80516

1. Performed an **annual** inspection of **aircraft** in accordance with FAR 43 appendix D and in reference to Diamond DA40 maintenance manual Doc # 6.02.01 and a checklist as a guide.
  2. Tested ELT in accordance with FAR 91.207 (a-d), batteries due April 2023.
  3. Readjusted nose gear fork steering tension.
  4. Removed pilot side seat belt inertial reel, untwist shoulder belt and reinstalled reel.
- Inspected aircraft exhaust, fuel and oil systems, landing gear, structure, wings, control systems and overall aircraft condition. I certify this **aircraft** has been inspected in accordance with an **annual** inspection and determined to be in airworthy condition.
- END-----

Paul D. Randall  
Paul D Randall  
AP30813411A

CARRIED FORWARD

# ENGINEERING RECORD

14

N141HL Diamond DA40, SN: 40-1079, TACH: 1892.2

Removed PFD G1000 PN: 006-B0319-A8, SN: 106002559. Installed OH Exchange G1000 PFD 011-00972-03, SN: 88904509. Loaded and reconfigured SW 321.23 as needed IAW SB 1106 Rev. A dated Feb. 31, 2011.

Loaded new SW 2.54 in GTX345R IAW SB 2039 Rev. B dated March 27, 2020 and SB 1967 Rev. B dated Oct. 10 2019  
This Aircraft Approved for Return to Service

Signed: Danny Pinson CRS # 6DNR881C  
DNT Avionics Grand Junction, Colorado 81506  
For Pertinent Details Ref. WO# 620 Dated 05/06/2020

N# 141HL Tests and inspections required by 14 CFR 91.411, and 91.413 (Part 43, APP. E&F) have been performed as follows:

Static system(s) test 1000' AGL  
Alt/ADC 1 Model GDC74A S/N 47808730  
Alt/ADC 2 Model N/A S/N N/A  
Alt. tested to 30,000 ft. Encoder tested to 30,000 ft.  
Transponder #1 Model GTX345R S/N 3EH430189  
Transponder #2 Model N/A S/N N/A  
Standby Alt. Model U-I-5954PD S/N 471987

Pertinent Details are file under W.O. 351PS  
A/C TTAF 1892.2 DNT Avionics  
Signature Danny Pinson CRS #6DNR881C dated 5/6/20

Pilots PFD

-1,000	980	14,000	14,010
0	410	16,000	16,000
500	500	18,000	18,010
1000	1010	20,000	20,000
1500	1500	22,000	
2000	2010	25,000	
3000	3000	30,000	
4000	4000	35,000	
6000	6010	40,000	
8000	8000	45,000	
10000	10,000	50,000	
12000	12,000		

DNT Avionics CRS#6DNR881C  
N# 141HL Tested by Danny Pinson  
Date 5/6/20 ALT S/N 47808730 W/O# 351PS

StBy Altimeter

-1,000	-1000	14,000	13,960
0	0	16,000	15,970
500	490	18,000	18,000
1000	1010	20,000	20,040
1500	1500	22,000	
2000	2020	25,000	
3000	3010	30,000	
4000	4000	35,000	
6000	5990	40,000	
8000	7970	45,000	
10000	9970	50,000	
12000	11,960		

DNT Avionics CRS#6DNR881C  
N# 141HL Tested by DANNY Pinson  
Date 5/6/20 ALT S/N 471987 W/O# 351PS

N141HL  
June 2, 2020

AIRFRAME  
Tach 1939.4

DIAMOND DA 40  
TTAF 1939.4

S/N 40.1079

Replaced all 4 brake liners, P/N RA66-106. Replaced left tire and tube, P/N 072-449-0. Replaced alternator belt P/N 37A19723-37b. Replaced alternator brushes P/N 79160. Replaced voltage regulator P/N VR2000-28-1. Replaced starter ring gear P/N 72566. Hector Brown AP2731870IA

FOR COMPLETE

BROUGHT  
FORWARD

**AIRMTIVE**  
SPECIALTIES, INC.

Aircraft Service, Structures & Restorations

Date: July 15, 2020

AIRCRAFT INFORMATION		Work Order	9850
Make	DIAMOND AIRCRAFT	Tach	1959.4
Model	DA 40	ACTT	1959.4
Serial #	40.1079		
Reg. #	N141HL		

1. Checked brakes pads for ware and serviced hydraulic fluid as needed.
2. Aired all three tires.
3. After test light, removed cowl and visually inspected and found all good.
4. Set idle speed as needed.
5. Installed cowlings.

I certify the above components and work listed above have been inspected this date and found to be in airworthy condition and ok for return to service.

Signed

IA2896758

**AIRMTIVE**  
SPECIALTIES, INC.

Aircraft Service, Structures & Restorations

Date: July 22, 2020

AIRCRAFT INFORMATION		Work Order	9882
Make	DIAMOND AIRCRAFT	Tach	1980.5
Model	DA 40	ACTT	1980.5
Serial #	40.1079		
Reg. #	N141HL		

1. Removed panels for Bose headset installation
2. Wired passengers Bose headsets.
3. Drilled holes on panel and run power wiring
4. Wired Pilot Boise headsets
5. Run power wiring for headset Boise.
6. Mount connectors into panel as needed. Connected power.

I certify the above components and work listed above have been inspected this date and found to be in airworthy condition and ok for return to service.

Signed

IA2896758

**AIRMTIVE**  
SPECIALTIES, INC.

Aircraft Service, Structures & Restorations

Date: October 29, 2020

AIRCRAFT INFORMATION		Work Order	10071
Make	DIAMOND AIRCRAFT	Tach	2000.1
Model	DA 40	ACTT	2000.1
Serial #	40.1079		
Reg. #	N141HL		

1. Checked brakes pads for ware and serviced hydraulic fluid as needed.
2. Aired all three tires.
3. Sealed all baffles at edges and holes, adjusted baffles rubber seal to fit cowing better. Adjusted upper cowl as needed.
4. C/W AD2020-14-06 Fuel System by visually inspecting hose per AD. N/A by hose not listed in affected parts.
5. Installed cowlings.

I certify the above components and work listed above have been inspected this date and found to be in airworthy condition and ok for return to service.

Signed

IA2896758

CARRIED FORWARD

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

SIGNATURE

LICENCE  
NUMBER

**AIRMTIVE**  
SPECIALTIES, INC.

Aircraft Service, Structures & Restorations

Date: December 23, 2020

AIRCRAFT INFORMATION		Work Order	
Make	DIAMOND AIRCRAFT	Tach	10143
Model	DA 40	ACTT	2002.0
Serial #	40.1079		
Reg. #	N141HL		

1. Removed LH and RH brake linings and installed new brake lining rivets.
2. Aired Tires.
3. Serviced brake fluid
4. Trouble shoot elevator trim slippage.

I certify the above components and work listed above have been inspected this date and found to be in airworthy condition and ok for return to service.

Signed

IA2896758

**AIRMTIVE**  
SPECIALTIES, INC.

Aircraft Service, Structures & Restorations

Date: September 28, 2021

AIRCRAFT INFORMATION		Work Order	
Make	DIAMOND AIRCRAFT	Tach	10452
Model	DA-40	ACTT	2017.9
Serial #	40.1079		
Reg. #	N141HL		

1. C/W Annual/50hr/100hr/1000hr/2000hr and tap test inspections. to included removal of fuel tanks and installing all new interconnect hoses.
2. Completed drain hole inspection and found good.
3. Removed all flexible brake hoses and installed new hoses. Bled brake system as needed.
4. Back up battery was expired. Ordered new battery and installed
5. C/W SI40-151 Fuel valve system lack of engagement by inspection and found to be airworthy.
6. C/W SB92-10 Ignition switch inspection by removing switch, inspection and lubrication as needed.
7. Removed lower engine mount bolts and completed visual inspection as required. installed bolts and torqued.
8. Glue flap control rod boots.
9. Removed and replaced all fuel lines aft of firewall new.
10. Battery capacity test and found battery failed.
11. Removed autopilot servos and sent to APR aviation for torque test. Installed after torque test completed.
12. Flap wearing on Fiberglass skin of wing. installed chaff tap and set rig of flap as needed.
13. Installed new nose tire and balanced as required.
14. installed new RH main tire and tube. Balanced as required.
15. Ordered and replaced aux fuel pump with new exchange pump P/N 5100-00-9CJ. Boxed and shipped core.
16. Removed LH and RH safety walk from wings. Removed all glue residue as needed. Took to paint shop and had new safety walk installed.
17. C/W AD2009-10-04 nose gear and Pivot axial inspection in accordance with AD and applicable service information. Dye Penetrant check as required and found no cracks. Assembled all items removed for this work.
18. C/W RSB40-089/1 oil pressure switch by installing new improved switch.
19. C/W MSB40-91 and MSB40-46/3 Dye penetrant inspection of nose landing gear by disassembling and removing nose landing gear and performing the Dye check and found no cracks.
20. C/W RSB 40-082/1 Inspection of NLG elastomer pack center tube and found all elastomers were bad. Installed 5ea. P/N DA4-9032-23-01 elastomers and new wire assembly P/N BW1-A14-RB8FB4-080
21. RSB40-083 Replacement of steel pin door handle. Removed and disassembled cabin door handle. Found proper pin installed. Assembled and installed handle.
22. Checked calibration of fuel gauges and found good.
23. LH nose gear steering stop found worn out. Ordered and installed new stop P/N D41-3223-00-51 and adjusted friction on steering to 5lbs.
24. Ordered and installed new pilot seat inflators.
25. Ordered and installed new first aid kit.
26. Swung compass and installed compass correction card.
27. All AD's C/W as listed in AD listing attached to back of this aircraft logbook.

I certify that this aircraft has been inspected in accordance with an annual inspection in accordance with Part 43 Appendix D and has been determined to be in airworthy condition.

Signed

IA2896758

# AIR TIME AND

DATE	DAILY TOTAL		TOTAL AIR TIME SINCE MFG.		ENGINEERING RECORD <small>NOTE: USE BOTH PAGES AND AS MANY LINES AS REQUIRED FOR COMPLETE</small>
	HRS.	MIN.	HRS.	MIN.	
BROUGHT FORWARD					

— This aircraft has been inspected and has been found safe for the  
 — intended flight in accordance with Special Flight Permit DATED  
 — December 5, 2022

Signed

*Ken Erickson*  
 Ken Erickson  
 3474466IA

— This aircraft has been inspected and has been found safe for the  
 — intended flight in accordance with Special Flight Permit DATED  
 — December 9, 2022

Signed

*Ken Erickson*  
 Ken Erickson  
 3474466IA

N141HL

Diamond Aircraft Ind. DA-40 Serial# 40-1079

Lycoming IO-360 M1A Serial # L-35117-51E

Propeller MTV-12-B/183-59b Serial# 97324

Performed aircraft Annual Inspection, using Diamond Aircraft Industries Inc.

Maintenance Manual Doc No. 6.02.01 Rev. 7, and Part 43 appendix D as a guide. All

routine and required maintenance was performed. Checked AD's thru 2023-04, via the

FAA website. Removed ELT for servicing and installed a placard on the instrument

panel. Installed new aircraft battery; Concorde RG24-15. Applied new coating on the

inside of both upper and lower cowling. Performed engine functional test and checked for

leaks no defects noted. I Certify that I have inspected this Aircraft this date IAW an

Annual Inspection and found it to be in an Airworthy Condition. OK for return to

service.

*Kenneth Erickson*  
 Kenneth Erickson AP3474466IA

02/17/2023

ACTT: 2047.1

Engine TSMOH: 88.2

Prop TSMOH 450.5

CARRIED FORWARD



# ENGINEERING RECORD

16

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

SIGNATURE

LICENCE  
NUMBER

**AIR\*TIME**  
SPECIALTIES, INC.

Aircraft Service, Structures & Restorations

Date: February 28, 2023

AIRCRAFT INFORMATION

Work Order

11775

Make

DIAMOND AIRCRAFT

Tach

2047.5

Model

DA 40

ACTT

2047.5

Serial #

40.1079

Reg. #

N141HL

1. Removed battery form ELT, downloaded form and filled out information to have unit reprogrammed, PN:452-6499 or kit PN: 455-0012
2. boxed and shipped to vendor to get programmed. Received ELT, Installed new battery. ELT Battery is due Apr/2023.
3. CW FAR 97.207(d) 1 through 4, ELT test and inspection, ops check good. Battery replaced, next due: 10/2029. Installed ELT in aircraft.
4. Installed ELT in aircraft as needed.

I certify the above components and work listed above have been inspected this date and found to be in airworthy condition and ok for return to service.

Signed

IA2896758

Precision Static Testing      Livermore, CA  
FAA Certified Repair Station #QJAR856X  
PHONE: (925) 449-5904

I certify that the altimeter(s) and static system(s) tests required by 14 CFR § 91.411 and transponder tests as required by § 91.413, including data correspondence, required by § 91.217, have been performed and found to comply with 14 CFR Part 43, Appendix E and F.

Tested to 206 feet.

Time: 2735.7

W/O# 22493

N 141HL

Inspected by [Signature]

Date 3/2/27

N141HL

09/17/2023

Diamond Aircraft Inc. DA-40. S/N 40-1079

ACCT: 2146.1

Lycoming IO-360 M1A

S/N: L-35-117E

Engine TSMOH: 187.2

Propeller MTV-12-B/183-59b S/N: 97324

Prop TSMOH: 549.5

Performed airframe 100 Hour inspection, using Diamond Aircraft Industries Inc. Maintenance Manual Doc No. 6. 06. 01 Rev. 7, and part 43 appendix D as a guide. All routine and required maintenance was performed. Checked Airframe AD's, no new apply. I certify I have inspected this Airframe this date IAW an 100-hour inspection and found it to be in an Airworthy condition. OK for return to service.

[Signature] Kenneth Erickson AP3474466IA