

AIRCRAFT TECHNICAL RECORD

Section 1. AIRFRAME LOG

AIRCRAFT

- | | |
|---|---------|
| 1. Nationality and Registration: | N464DS |
| 2. Manufacturer's designation: | DA 40 |
| 3. Manufacturer's Serial Number: | 40.1167 |
| 4. Type Approval or Specification Number: | A47CE |
| 5. Date of Manufacture: | 2012 |
| 6. Aircraft Inspections cycle: | |

Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)	NAME/ SIGNATURE	LICENCE: AME or AMO/ACA
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL			
	HRS	MIN	HOURS	MIN					
CARRIED FORWARD									



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

Registration: N464DS
AC Serial Number: 40.1167
Engine Serial Number: L-35926-51E
Prop Serial Number: NS1095B
Airframe Total Time: 4.0 hrs

- Total Time Airframe Brought forward from Flight Test Journey Log (DAI - Form Q-157) : 4.0 hrs
- Compass Swing Performed:
 - Date: Nov 27,2012
 - Next Due: Nov,2013
- 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: Nov 16,2012
 - Next Due: Nov,2014
- Stand By Altimeter:
 - Factory Test Date: Aug 16,2012
 - Next Due: Aug ,2014
- 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: Nov 16,2012
 - Next Due: Nov,2014
 - Programmed Reg: N464DS
 - Hex Code: N/A
- The ELT was tested and inspected in Accordance with CAR Standard 571, Appendix G and 14 CFR 91.207(d) :
 - Manufacturers Cert. date: 35/12
 - Installation Inspected: Nov 28,2012
 - Battery due: Nov, 2019
 - Next ELT inspection due: Nov, 2013
 - ELT remote switch cell:
 - Due Date: Nov, 2017
 - ELT Programmed:
 - REG: N464DS
 - HEX: N/A
 - Beacon ID: ADC6498A54ACB41
- Emergency Battery Pack : Replacement Due Date : Nov,2014
- G1000 Installation:
 - Software Version :010-0321-22
 - Obstacle expiry date: Jan 10,2013
 - Aviation expiry date: Dec 13,2012
 - FliteCharts expiry date: Dec 13,2012
 - SafeTaxi expiry date: Jan 10,2013
 - GTX 33 Software Version: 6.00

FOR	N	30	60	E	120	150
STEER	001	031	060	090	120	151
FOR	S	210	240	W	300	330
STEER	180	210	240	270	301	330



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

Registration: N464DS
AC Serial Number: 40.1167
Engine Serial Number: L-35926-51E
Prop Serial Number: NS1095B
Airframe Total Time: 4.0 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 Nov 2014
Bonding System	1000	-N/A-	1000 hrs
Emergency Battery	-N/A-	2	Nov 2014
Rudder Cables	3000	5	3000 hrs or Nov 2017
Fuel hoses (aft of firewall)	2000	12	2000 hrs or Nov 2024
Fuel hoses (fwd of firewall)	2000	12	2000 hrs or Nov 2024
Oil hoses	2000	12	2000 hrs or Nov 2024

- 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 FAA TYPE CERTIFICATE : A47CE rev 10 , AND IS IN A FIT AND SAFE STATE FOR FLIGHT
- Bi-weekly AWD check carried out to current revision 2012-23, all applicable AD's complied with
- The work described above was carried out IAW the applicable Standard of Airworthiness.

Inspector

NOV 30 2012
date

(Intentionally left blank below this point)



U.S. Standard Airworthiness Certificate, issued:

(Date) DEC 03 2012 ,has been installed in the aircraft on behalf of NE-MIDO-46 on:

(Date) DEC 03 2012

(Print) R. Salton (Signature)






Inspector

NOV 30 2012
date

(continued next page)

Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)	NAME/ SIGNATURE	LICENCE: AME or AMO/ACA
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL			
	HRS	MIN	HOURS	MIN					
CARRIED FORWARD	-	-	4.0						
DEC 14 2012							Date: December 14, 2012 RO-12-096 S/N: 40.1167 Reg: N464DS TACH: 4.0 Hrs. The Following work has been carried out: Garmin G1000 Database updates carried out. Flight charts & Nav. Database updated. Next updates due Jan. 10, 2013. The maintenance described above has been performed in accordance with the applicable standards of airworthiness. DIAMOND AIRCRAFT INDUSTRIES AMO 161-93 Signature:  Lic or Stamp 		
			4.0						

DATE 2-18-2013 TACH HOUR METER 0018.7

MFG/MODEL Diamond DA 40 SERIAL 40.1167



I certify that this aircraft was weighed in accordance with AC43.13-1B, change 1 in level flight attitude inside a closed hangar. Weighed with full oil. Weighed with fuel tanks full.
Scale readings were:

LH MAIN 970.0 RH MAIN 980.0 NOSE/TAIL 254.0

Scales Model 3-0101-299C, Serial 1239 Calibrated 5-14-2012

 AIRFRAME NO: 3485687

AIRCRAFT WEIGHING CORP. 1020 N.W. 62nd St., Hgr #6
954-928-1619 Ft. Lauderdale, FL 33309

MAKE: Diamond MODEL: DA 40 S/N: 40.1167 REG. NO: 464DS WORK ORDER: 5332-01-2013		Premier Aircraft Service, Inc. Repair Station No. 9PRR402B 5540 NW 23rd Avenue Hanger 14 Fort Lauderdale, FL 33309 Phone: (954) 334-2393	DATE: 2/19/2013 A/C TSN: 15.4 TACH: 15.4
Airframe Entries (2) INSTALLED SEAMECH INTERNATIONAL, R-134A COOLANT, AIR CONDITIONER SYSTEM IN ACCORDANCE WITH STC SA03674AT HELD BY PREMIER AIRCRAFT SERVICE, INC., FT. LAUDERDALE, FL. INSTALLED NEW SKY-TEC STARTER MODEL 149-NL/ec S/N FNE-441278. REVISED WEIGHT AND BALANCE, EQUIPMENT LIST, AND INSERTED POH SUPPLEMENT. SEE FORM 337 FOR DETAILS.... (4) INSTALLED PULSE LANDING & TAXI LIGHT CONTROLLER PER STC# SA01861SE BY SEATON ENGINEERING CORP IAW SEATON ENGINEERING FAA APPROVED MASTER DRAWING, DOC 9150-001 REVISION G DATED JUNE 22, 2009. SEE FORM 337 FOR DETAILS. UPDATED EQUIPMENT LIST & POH. NO SIGNIFICANT CHANGE IN WEIGHT & BALANCE. OPS CHECK NORMAL. 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: 2/19/2013 SIGNED:  Work Order: 5332-01-2013 Richie Quiles Certified Repair Station No. 9PRR402B Printed by EBis 3 (datcomedia.com)			

MAKE: Diamond MODEL: DA 40 S/N: 40.1167 REG. NO: 464DS WORK ORDER: 5428-03-2013		Premier Aircraft Service, Inc. Repair Station No. 9PRR402B 5540 NW 23rd Avenue Hanger 14 Fort Lauderdale, FL 33309 Phone: (954) 334-2393	DATE: 4/5/2013 A/C TSN: 19.2 TACH: 19.2
Airframe Entries (2) INSTALLED SUN VISOR ASSEMBLY P/N 1960100-0 PER DIAMOND DRAWING DA4-2525-04-00X01. 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: 4/5/2013 SIGNED:  Work Order: 5428-03-2013 Ray Bysiewicz Certified Repair Station No. 9PRR402B Printed by EBis 3 (datcomedia.com)			

MAKE: Diamond MODEL: DA 40 S/N: 40.1167 REG. NO: 464DS WORK ORDER: 5525-05-2013		Premier Aircraft Service, Inc. Repair Station No. 9PRR402B 5540 NW 23rd Avenue Hanger 14 Fort Lauderdale, FL 33309 Phone: (954) 334-2393	DATE: 5/15/2013 A/C TSN: 33.5 TACH: 33.5
Airframe Entries (2) CHECKED A/C SYSTEM, FOUND OBSTRUCTED A/C DUCT. CLEANED DUCT. OPS CHECK GOOD.... (3) INSTALLED NEW CUP HOLDER ASSEMBLY P/N DA4-2525-03-03. 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: 5/15/2013 SIGNED:  Work Order: 5525-05-2013 Richie Quiles Certified Repair Station No. 9PRR402B Printed by EBis 3 (datcomedia.com)			

DATE / /	AIR TIME				LANDINGS / CYCLES	
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL
	HRS	MIN	HOURS	MIN		
CARRIED FORWARD						

MAKE: Diamond
MODEL: DA40-180
S/N: 40.1167
REG. NO: N464DS
WORK ORDER:
3461-07-2014

ADVANCED Lancaster LP
530 Airport Rd.
Lititz, PA 17543
Phone: 717-735-5179

DATE: 7/28/2014
A/C TSN: 59.8
HOBBS: 79.4

Airframe Entries

Diamond DA40 Airframe Annual Inspection completed IAW the Diamond DA40 AMM check list section 05-20-00. Repacked all wheel bearings, cleaned and drained the fuel gascolator bowl, serviced the tires, serviced the battery, serviced the brake reservoir. Performed a light check. Lubed airframe. Checked cable tensions. ELT inspected in accordance with FAR 91.207(d). ELT batteries due 11/2019. All AD's current thru 2014-14. Ops check good. AD 2013-24-14 Wings, N/A by ASN. AD 2011-21-10 Cabin Cooling System, N/A, SB 40-2011-002 was accomplished. Upgraded brackets are installed, AD no longer applies. Removed and replaced the emergency battery pack, next replacement due 7/2016. C/W Concorde service instructions and applied 1.4 amps for 16 hours. Battery load test good. Re-tensioned all tail pipe springs. C/W Diamond wheel alignment procedures, removed and replaced the L/H M/G tire and tube.

I certify that this AIRFRAME has been inspected IAW an Annual Inspection and was found to be in Airworthy condition.

DATE: 7/28/2014

SIGNED:

Work Order: 3461-07-2014

Richard A. Barnhart II, IA: 2124954AP

Printed by EBis 3 (datcomedia.com)

8-1-14 DIAMOND DA-40 N464DS HOBBS=79.7
ADJUSTED BAROMETRIC SCALE OF UNITED ALTIMETER
P/N 5934PD-3A.130 S/N 498350. ALL WORK WAS
PERFORMED I.A.W. THE MANUFACTURER'S INSTRUCTIONS
AND FAR 91.411 AND PART 43 APPENDIX "E" —END

LANCASTER AVIONICS INC.
LANCASTER AIRPORT
LITITZ, PA 17543

DATE 8-1-14

CERTIFICATE NO. LN7R261N

SIGNED

Richard A. Staller

DA-40 N464DS

HOBBS=79.7

LANCASTER AVIONICS INC. CRS # LN7R261N

I CERTIFY THAT THE ALTIMETER, ENCODER AND
STATIC SYSTEM TESTS REQUIRED BY FAR 91.411
HAVE BEEN PERFORMED I/A/W FAR 43 APPENDIX E
UNIT TYPE TESTED TO
#1 ALTIMETER GDU1040A
#2 ALTIMETER UNITED
ENCODER(S) GDC74A
STATIC SYSTEM TEST DATE 8-1-14
SIGN Richard A. Staller DATE 8-1-14

LANCASTER AVIONICS INC

CRS # LN7R261N

CERTIFY THAT THE TRANSPONDER(S)
TEST REQUIRED BY FAR 91.413 HAS BEEN
PERFORMED I/A/W FAR 43 APPENDIX F
UNIT TYPE
#1 TRANSP GTX33
#2 TRANSP N/A
SIGN Richard A. Staller
DATE 8-1-14

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DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)

Cycle Aviation 1005 Sycolin Rd Leesburg Executive Arpt Leesburg, VA 20175 CRS# 6LVR604C
LOG ID# 2931 06-August-2015 WO# 3324/1 FORM M3 HOBBS 95.4
N464DS S/N 40.1167 DIAMOND AIRCRAFT INC DA40 TACH 71.7

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>Performed Annual inspection IAW Diamond DA40 MM CH 05-28-00 and Title 14 CFR Appendix D.
Applicable AD's have been reviewed thru Small Aircraft, Biweekly 2015-15
>Performed 12 month ELT inspection IAW FAR 91.207(d), ME406, SN 197-13902 no defects noted.
Battery Exp: Nov 2019
>Performed 12 month inspection and weight check of fire extinguisher SN BB-864171.
Weight 36.02 grams
>Performed autopilot system mechanical check IAW DA40 mm ch 22-11-00, no defects noted.
>Lowered exhaust assembly, inspected entire assy for cracks and excessive wear, applied
antiseize compound to all slip joints and re-assembled power flow assy. Reinstalled to
aircraft with new gaskets PN 77611 IAW PowerFlow ICA PFS 15250-00.
>Performed inspection and operational check IAW MaxPulse ICA 9150-008, No defects noted.
>Performed inspection of the Amsafe seat belts IAW the Amsafe ICA using diagnostic tool
p/n:508668-201 s/n:001205 Cal Date:7/20/15, No defects noted.
>Complied with AD2011-26-04 by visual inspection of the fuel injection lines for defects,
no defects noted.
>AD2015-02-07 not applicable due to non aerobatic.
>Removed the LH wingtip p/n: DA4-5731-00-00, S/N:3840015692 and RH wingtip p/n:DA4-5732-00-00,
S/N:3860015818 and reinstalled same following re-paint by Boss Aircraft Maintenance.
>Relamped Left nav light with new bulb p/n:A7512-24 and performed a satisfactory ops chk
IAW DA40 mm ch 33-40-00.

I certify that this Airframe has been inspected IAW Annual Inspection and has been found to be
in Airworthy condition. The article identified above was repaired and inspected in accordance
with current federal aviation regulations and current manufacturers manuals and is approved for
return to service. Pertinent details on file at this repair station under above referenced
work order.

Signed CRS# 6LVR604C Adam Snyder

8-6-2015
Date



KRUQ- Rowan County Airport
3680 Airport Loop Rd
Salisbury, NC 28147
(704) 310-1421

Make: Diamond
Date: 7-28-2015

N464DS
Model: DA 40

S/N: 40.1167
Tach: Hobbs:

Aircraft wing tips left and right. Prepped for painting, primed and repainted to match existing color of
white.//END//

Michael S Doud A&P 304660342IA

Michael S Doud

Cycle Aviation 1005 Sycolin Rd SE Leesburg Executive Arpt Leesburg, VA 20175 CRS# 6LVR604C
LOG ID# 3778 08-April-2016 WO# 4063/1 FORM M3 AC TT 93.7 HOBBS 128.9
N464DS S/N 40.1167 DIAMOND AIRCRAFT INC DA40

Pg 1 / 1

DISCREPANCY: PFD Dim, VFR capable but not IFR comfortable
Model: GDU 1040 Part#: 011-00972-03 Serial#: 88900161
ACTION: 03/22 - Ramp checked system and confirmed all photocells are functioning correctly and the
PFD configuration is set properly. Annotated: GDU-1040, p/n 011-00972-03, s/n 106003083, mods 1&2,
sw: 9.15, Sys SW: 0321.22.

03/29 - Removed Garmin PFD GDU 1040 p/n 011-00972-03 s/n 106003083 and installed Overhauled Exchange
s/n 88900161. Reloaded Unit Software, Configuration Files and Navigational Database Files IAW G1000
System Maintenance Manual - Diamond DA40/40F p/n 190-00545-01 Revision J. System ramp checks ok.

The work identified above was performed in accordance with current Federal Aviation Regulations and
current manufacturers manuals and is approved for return to service. Pertinent details on file at
this station under above referenced work order.

Signed 6LVR604C Dave Shelton

Date

4

NAME/ SIGNATURE	LICENCE: AME or AMO/ACA
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The work identified above was performed in accordance with current Federal Aviation Regulations and current manufacturers manuals and is approved for return to service. Pertinent details on file at this repair station under above referenced work order.

I certify that this Aircraft has been inspected IAW Annual Inspection and has been found to be in Airworthy condition.

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The work identified above was performed in accordance with current Federal Aviation Regulations and current manufacturers manuals and is approved for return to service. Pertinent details on file at this repair station under above referenced work order.

igned: CRS# 6LVR604C Charlie Schoenduby

LICENCE:
AME or
AMO/ACA



Date: 7/12/2017
Hour Meter: 242.4
ATT: 242.4



Sept 27, 2017
N464DS
Diamond DA-40XLT
Tach / Hobbs: 0209.7

Chatham Municipal Airport, 240 George Ryder Rd. Chatham, MA 02633
Tel (508) 945-5747, Fax (508) 945-9599. sticknrudderaero@comcast.net
Visit us on the web at www.chathamairport.com

Airframe Entry

- 1) Lower firewall Power Flow Exhaust System rubber support strap replaced w/new
- 2) Ship battery replaced w/new Concord RG24-15M 24/28v battery
- 3) All tires checked & serviced as needed
- 4) Complied with Service Bulletin SB40-046-M-3 Insp. of Nose Gear Leg – no defects found.
- 5) All affected systems ops checked – all normal

Aircraft approved for return to service.

Timothy P. Howard A&P/IA 2854191

— End —

Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES	
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL
	HRS	MIN	HOURS	MIN		
CARRIED FORWARD						

VIP Aero Instruments and Avionics BRAINARD AIRPORT HARTFORD, CT 06114 CRS# TH5R223N
LOG ID# 4104 25-July-2018 WO# 23853/4 TH5R223N
N464DS S/N 40.1167 DIAMOND DA 40

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- 1- REMOVE EQUIPMENT: Removed Garmin GTX33 remote Mode S transponder p/n: 011-00779-10, s/n: 89123922 and Garmin GA55 XM antenna p/n: 011-01033, s/n: 87500915.
- 2- G1000 SOFTWARE UPDATE: Updated the aircraft's G1000 system software to version 0321.23 IAW Garmin STC Service Bulletin No. 1334 Rev. A dated October 1, 2013. Provided the owner/operator with updated FAA Approved Airplane Flight Manual Supplement p/n: 190-00492-10 Rev. 8 dated 5-16-13 and new G1000 Cockpit Reference guide for Diamond DA40 p/n: 190-00324-11 Rev. C dated November 2012. System OPS tested good.
- 3- INSTALL GTX345R: Installed new Garmin GTX345R remote ADS-B In/Out transponder with internal WAAS GPS receiver p/n: 011-03303-40, s/n: 3EH420259. Also installed new Garmin GA37 WAAS GPS/XM combination antenna p/n: 013-00245-00, s/n: 17944 and ran new RG400 low loss cable for internal GPS antenna system. The GTX345R is connected to the existing TAS 600 and G1000 to provide the G1000 with combined active and TIS traffic as well as FIS-B weather. All work was performed IAW Garmin GTX3xx part 23 AML STC Installation Manual #190-00734-10 Rev. 10 dated March 2018, STC SA01714WI, Garmin GA antenna STC Installation Manual #190-00569-00 Rev. F dated August 2007 and "Diamond Aircraft Recommended WAAS Antenna Installation Instructions for Independent ADS-B in a Model DA40-180". Completed and included a copy of the configuration-checkout log with the aircraft paperwork. This installation meets ADS-B out version 2 compliance requirements defined in 14 CFR 91.227. The FAA Approved Airplane Flight Manual Supplement p/n: 190-00734-15 Rev. 3, dated December 2017 was inserted into the aircraft POH.
- 4- All work was performed IAW AC43.13-1B/2B. Weight/balance and equipment list has been updated. See 337 this date for details. Systems ramp tested good.
- 5- FAR 91.411 has been accomplished IAW Part 43 app E para A,B,D. This altimeter has been tested to 20,000 feet. Pertinent details are on file at this facility.
- #1 - Make: Garmin Model: GDC74A Serial #: 20613515
#2 - Make: United Instruments Model: 5934PD-3 Serial #: 496350

VIP Aero Instruments and Avionics BRAINARD AIRPORT HARTFORD, CT 06114 CRS# TH5R223N
LOG ID# 4104 25-July-2018 WO# 23853/4 TH5R223N
N464DS S/N 40.1167 DIAMOND DA 40

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Automatic pressure altitude reporting system tested to 20,000 feet as required by FAR 91.411 IAW FAR 43, app E, para. C.
Make: Garmin Model: GDC74A Serial #: 20613515

ATC transponder tests and inspections required by FAR 91.413 were performed and found to comply with FAR part 43 app F.
Make: Garmin Model: GTX345R Serial #: 3EH420259

I certify that this aircraft has been inspected in accordance with FAR 91.411 and 91.413 inspections and was determined to be in airworthy condition.

Ed Rowley 7/25/18
Ed Rowley Date

PAGE TOTALS

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September 05, 2018

N464DS
Diamond DA40 S/N 40.1167
Hobbs: 424.8
TTAF: 326.3

ANNUAL INSPECTION: c/w per Diamond DA40 Series Maintenance Manual, section 05-28 & FAR 43 Appendix D. All scheduled servicing & lubrication performed per service manual instructions. In addition the following items were accomplished:

- Removed, charged, and capacity tested ship batt, Passed at 94.1%, charged and reinstalled.
- Serviced brake fluid reservoir serviced to full.
- ELT tested and inspected I/A/W FAR 91.207D. ELT battery next due Nov 2019.
- Cleaned & inspected Gascolator.
- Inspected Drain holes I/A/W Maintenance Manual 05-25-00
- Lubed AF Interior and exterior to Service manual Lube chart.
- Removed, Inspected, and reinstalled Rudder per maintenance manual inspection 5-28
- Inspected nose wheel fork for caster friction per section 32-20
- Checked all flight controls - all normal
- Secured cowl oil door & aux power hinges as needed.
- Repaired clips on pilot center console wood grain strip & Reinstalled.
- Replaced pilot seat pan access hatch with new hardware
- Secured RH Gear leg brake line retaining clip.
- Serviced tire pressure to spec.
- R&R LH Main Tire w/new P/N 06-05500-3
- R&R RH Tube w/new P/N 097-500-0
- R&R LH & RH Brake Lining w/ new P/N 06614100 (x3)
- R&R RH Cone Bearing w/ new P/N 214-00200
- R&R RH Cup Bearing w/ new P/N 214-00100
- Removed Flap micro switch #1 & Installed in correct orientation per service manual, Flap rigging adjusted & set as needed
- R&R Flap UP indicator light P/N T4.6 24-20
- R&R Flap UP Light socket assy w/ new P/N 1.02157.001-1510
- R&R LH Strobe Flash tube assy w/ new P/N 02-0250276-00
- Stop drilled minor cracks in aft skeg skip plate area
- All ADs thru issue 2018-15 checked and complied with. New current complete AD compliance list printed out and placed in ship records.
- Belly degreased, ship washed, interior vacuumed and glass polished.
- Aircraft test run & all systems ops checked - all normal.

I certify that this AIRFRAME has been inspected in accordance with an ANNUAL INSPECTION & was determined to be in an airworthy condition at this time. Aircraft approved for return to service.

Timothy P. Howard A&P/IA 2854191

Section 1: Airframe Log



Chatham Municipal Airport. 240 George Ryder Rd. Chatham, MA 02633
Tel (508) 945-5747, Fax (508) 945-9599. sticknrudderaero@comcast.net
Visit us on the web at www.chathamairport.com

October 4, 2019
N464DS
Diamond DA40 S/N 40.1167
AFTTIS: 0426.8

Airframe Entry

ANNUAL INSPECTION: c/w per Diamond DA40 Series Maintenance Manual, section 05-28 & FAR 43 Appendix D. Scheduled servicing & lubrication performed per maintenance manual instructions. In addition the following items were accomplished:

- Removed, charged, and capacity tested ship battery. Re-charged and reinstalled. No deficiencies.
- Serviced brake fluid reservoirs serviced to full (Co-Pilot master cylinders).
- Replaced ELT battery pack with new 452-6499 ME406 battery pack.
- ELT tested and inspected I/A/W FAR 91.207D. ELT battery next due July 2025.
 - ELT operations normal, no defects, per Artex product manual 570-1600 Rev. AA
- Cleaned & inspected fuel filter bowl assembly. No contaminants found. Reassembled.
- Inspected/cleared drain holes IAW Maintenance Manual 05-25-00
- Lubed AF Interior and exterior IAW Service manual Lube charts.
- Removed, Inspected, and reinstalled Rudder per maintenance manual inspection 05-28
- Inspected nose wheel fork and steering stop bracket per section 32-20
 - Removed gear fork from pivot/steering stops. Cleaned, greased and reassembled. LPS 3 protectant applied.
 - Adjusted friction upward to approx. 12lbs, per manual specs.
- Nose gear suspension elastomer stack measured and found to be at 306mm and within limits.
- Repaired clips on co-pilot center console and pilot LH wood grain trim strip & reinstalled.
- Serviced tire pressure to values per maintenance manual 12-10-00.
- Cable tensions checked and verified within limits per maintenance manual.
- Removed/Replaced LH & RH Brake Linings w/ new P/N 06614100 (x4)
- Removed and cleaned/honed RH brake caliper cylinder. New MS28775-224 O-Ring installed. Ops check normal.
- Replaced POH/AFM with new version 6.01.01-E containing current Rev. 9 updates (2014).
- Removed and sent tail skeg for vendor repair to SouthTec aviation. Received, reassembled and installed repaired unit.
- Replaced front canopy lock cylinder with new cylinder, adjusted for proper operation.
- Replaced pilot side vent window catch (DV Panel latch plate/Canopy Lock) with new DA4-5210-20-53 with AcriFix 1R 192
- Degreased air conditioner condenser/heat exchanger coils with foaming AC cleaner and flushed with water.
- Replaced emergency avionics battery with new D41-2560-93-00 battery pack. Battery expiration 09/2028.
- Performed dye penetrant crack inspection on air conditioner compressor attachment ears per ICAW. No cracks found.
 - Tightened compressor attachment hardware as needed.
 - ICAW reveal no other discrepancies with air conditioning system.
- Replaced NACA vent placard at LH wing root with new D41-1126-20-24 placard.
- Repaired RH wheel pant fiberglass cracks in lower inboard edge and brake cover. Re-painted bright white to match.
- Re-secured OAT probe in LH air conditioner belly scoop inlet.
- All ADs thru issue 2019-18 checked and complied with. New AD compliance list printed out and placed in ship records.
- Belly degreased, ship washed, interior vacuumed and canopy/sun visors cleaned.
- Aircraft test run & all systems ops checked - all normal.

I certify that this AIRFRAME has been inspected in accordance with an ANNUAL INSPECTION & was determined to be in an airworthy condition at this time. Aircraft approved for return to service.

Seth E. Dietrich A&P/IA 3212640

END

January 20, 2020 N464DS Hobbs: 426.8

- Removed and replaced nose tire with new Michelin 5.00x5 6ply P/N 072-312-0, and new Michelin 5.00x5 tube P/N 092-308-0. Cleaned, inspected, repacked, and reinstalled bearings.

My signature constitutes approval for return to service of this aircraft ONLY FOR THE WORK I HAVE PERFORMED. I have not performed nor been authorized to perform any inspection of this aircraft nor have I reviewed or been authorized to review the maintenance records, including Part 39 compliance.

Legacy Air, Inc
11905 Corporate Way
Broomfield, CO 80021
303-404-0277

Curt Lee Power
A&P 2882132

Reg #: N464DS AC S/N: 40.1167	Make: Diamond ACTT: 509.0	Model: DA40 Hobbs:	Airframe Tach:
1. Reattached LH brake line clip with terostat 9380 as required.			
All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station.			
Signature:		Date: 05/08/2020	Work Order: 20-00695
For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624			



Reg #: N464DS AC S/N: 40.1167	Make: Diamond ACTT: 523.2	Model: DA40 Hobbs:	Airframe Tach:
1. Performed 100hr inspection IAW Diamond DA40 AMM 05-28-00 and 25-28-50. AD research has been performed up to and including 5/26/2020.			
2. Removed wheel pants as required. Found weight and balance to be negligible.			
3. Cleaned AC condenser as required IAW seamech international R-134a Airconditioning system ICA 6.1.			
I certify this aircraft has been inspected IAW a 100hr inspection and was determined to be in airworthy condition.			
All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station.			
Signature:		Date: 05/26/2020	Work Order: 20-00709
For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624			



Reg #: N464DS AC S/N: 40.1167	Make: Diamond ACTT: 541.4	Model: DA40 Hobbs:	Airframe Tach:
1. Removed and replaced RH MLG tire with new P/N 156E66B1 S/N 91635839 and tube new P/N GL-1520B IAW Diamond DA40 AMM 32-40-00 and cleveland wheels and brakes CMM AWBCMM001-21USA section 300.			
All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station.			
Signature:		Date: 06/09/2020	Work Order: 20-00716
For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624			



Reg #: N464DS AC S/N: 40.1167	Make: Diamond ACTT: 547.6	Model: DA40 Hobbs:	Airframe Tach:
1. Removed and replaced RH wing tip strobe lamp flash tube P/N 02-0250276-00 IAW Diamond DA40 AMM 33-40-00. Ops check satisfactory.			
All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station.			
Signature:		Date: 06/16/2020	Work Order: 20-00722
For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624			



Section 1: Airframe Log

DATE AIR TIME LANDINGS / CYCLES

CARF FORM

I certify that the Altimeter(s), Static System(s), and ADC(s) were tested and inspected as required by 14 CFR 91.411 and were performed on this date and were found to comply with 14 CFR 43, paragraph (A&B) of Appendix E

L/H Altimeter P/N: GDC74A S/N: 20613515 Tested To: 20,000 Feet

R/H Altimeter P/N: — S/N: — Tested To: — Feet

Standby Alt. P/N: 5934PD-3 S/N: 494350 Tested To: 20,000 Feet

#1 Encoder/ADC P/N: GDC74A S/N: 20613515 Tested To: 20,000 Feet

#2 Encoder/ADC P/N: — S/N: — Tested To: — Feet

#3 Encoder/ADC P/N: — S/N: — Tested To: — Feet

Details of this inspection are on file at this repair station under:

W.O.#: R00397 A/C Tail Number: N464DS

Signature: Dennis Gray Date: 7/29/2020

Calspan, 2041 Niagara Falls Blvd. Niagara Falls, NY 14304

FAA Approved Repair Station # 2C3R049L

I certify that the Transponder(s) were tested and inspected as required by 14 CFR 91.413 and were performed on this date and were found to comply with 14 CFR 43, Appendix E, paragraph C & Appendix F

ATC Transponder #1: GTX345R S/N: 3FH420259

Encoder/ADC #1: GDC74A S/N: 20613515

ATC Transponder #2: — S/N: —

Encoder/ADC #1: — S/N: —

Details of this inspection are on file at this repair station under:

W.O.#: R00397 A/C Tail Number: N464DS

Signature: Dennis Gray Date: 7/29/2020

Calspan, 2041 Niagara Falls Blvd. Niagara Falls, NY 14304

FAA Approved Repair Station # 2C3R049L

ALTIMETER SCALE CORRECTION CARD

STANDARD ALTITUDE in FT.	PILOT SIDE ALTIMETER READING	COPILOT SIDE ALTIMETER READING	STANDBY ALT. ALTIMETER READING
-1000	-1000		-1000
0	0		20
500	500		520
1000	1000		1010
1500	1500		1520
2000	2000		2020
3000	3000		3020
4000	4000		4020
6000	6000		6000
8000	8000		7980
10,000	9980		9960
12,000	11980		11950
14,000	13980		13960
16,000	15970		15980
18,000	17960		18000
20,000	19950		20020
22,000			
25,000			
30,000			
35,000			
40,000			
45,000			
50,000			
51,000			

Certified Repair Station # - 2C3R049L

Calspan

2041 Niagara Falls Blvd

Niagara Falls, NY 14304

A/C TAIL# N464DS

A/C S/N: 40.1167

DATE: 7/29/2020

TESTED BY: Dennis Gray

SIGNATURE: Dennis Gray

INSPECTED BY: DG

REPLACEMENT

Reg #: N464DS Make: Diamond Model: DA40. Airframe

AC S/N: 40.1167 ACTT: 620.3 Hobbs: Tach:

1. Performed 100hr inspection IAW Diamond DA40 AMM 05-28-00 and 05-28-50. AD reseach completed up to and including 08/19/20

2. Removed and replaced refrigerant line adel clamp on #2 cylinder with new P/N MS21919WCJ16.

3. Removed worn cooling hoses for battery and alternator and replaced with new P/N SCAT 4.

4. Removed and replaced worn brake linings with new P/N 066-14100 IAW Diamond DA40 AMM 32-40 and Cleveland wheels and brakes CMM AWBCMM0001-21/USA.

5. Adjusted elevator trim friction block IAW Diamond DA40 AMM 27-38-00.

6. C/W AD2020-14-06 effected fuel interconnect not installed. No further action required.

7. Removed and replaced prop control cable core with new P/N T22700034 IAW Diamond DA40 AMM 61-20-00.

I certify that this aircraft has been inspected IAW a 100hr inspection and has been determined to be in airwothy condition.

All work performed IAW current FAA regulations and current manufacturers technical data. The article is airwothy with respect to the work above.

For details of work performed, see workorder on file with this Repair Station.

Signature: David McBride Date: 08/19/2020 Work Order: 20-00743

For: Avflight Rochester Corporation CRS J22R845J

1205 Scottsville Rd

Rochester, NY 14624

AVFLIGHT

Calspan

2041 Niagara Falls Blvd, Niagara Falls, NY 14304

Tail: N464DS Hobbs: 827.9 Tach: 625.9 Make/Model: Diamond DA40 S/N: 40.1167

-removed Main Ship Battery P/N- RG24-15M, S/N- 40895780. Installed new Main Ship Battery P/N- RG24-15M, S/N- 41105722. Top Charged Battery. All results were found to be satisfactory.

This aircraft has been inspected and is approved for return to service with respect to the work accomplished. Pertinent details are on file at this facility under work order R00405.

Ben Chieffo, Accountable Manager

Date: August 24, 2020

Calspan Corporation, CRS# - 2C3R049L

Reg #: N464DS Make: Diamond Model: DA40. Airframe

AC S/N: 40.1167 ACTT: 668.4 Hobbs: Tach:

1. Removed and replaced RH wing tip strobe light power supply with new P/N 01-0770062-05 S/N 13698 IAW Diamond DA40 AMM 33-40-00.

All work performed IAW current FAA regulations and current manufacturers technical data. The article is airwothy with respect to the work above.

For details of work performed, see workorder on file with this Repair Station.

Signature: David McBride Date: 09/15/2020 Work Order: 20-00770

For: Avflight Rochester Corporation CRS J22R845J

1205 Scottsville Rd

Rochester, NY 14624

AVFLIGHT

Section 1: Airframe Log

DATE / /	AIR TIME		LANDING / CYCLES	
	DAILY TOTAL		TOTAL	
	HRS	MIN	HOURS	MIN

DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)



2041 Niagara Falls Blvd, Niagara Falls, NY 14302

Tail: N464DS Hobbs: 927.2 Make/Model: Diamond DA40 S/N: 40.1167

Removed GMU44 magnetometer p/n 011-00870-00 s/n 47521169. Installed overhauled GMU44 p/n 011-00870-00 s/n 47524626. Uploaded GMU44 software and calibrated magnetometer. Operational check was satisfactory.

This aircraft has been inspected and is approved for return to service with respect to the work accomplished. Pertinent details are on file at this facility under work order R00423.

Dennis Gray, Avionics Manager

Date: September 25, 2020
Calspan Corporation, CRS# - 2C3R049L

Carolina Avionics Group, LLC 3650 Airport Loop Road Salisbury, NC 28147
LOG ID# 1013 15-April-2022 HOBBS 1751.3
N464DS S/N 40-1167 DIAMOND/KATANA DA-40

Pg 1 / 1

Removed defective transponder Garmin GTX-345R P/N011-03303-40 S/N 3EH421311. Installed factory overhauled unit P/N 011-03303-40 S/N 3EH421140. G1000 system was reconfigured to incorporate GTX-345R Software level 2.60 referencing SB 2152. All work performed referencing Garmin GTX-345 Installation Manual.
Carolina Avionics Group work order 10609 for compliance of FAR 91.413.

QCCR-389K Silvio Reine 04/15/2022 Date

FAR 91.413			
THE ATC TRANSPONDERS AND INSPECTIONS AS REQUIRED BY FAR 91.413 WERE PERFORMED THIS DATE AND FOUND TO COMPLY WITH PART 43 APPENDIX F AND APPENDIX E PARAGRAPH C.			
TRANSPONDER #1	MAKE: GTX-345R	MODEL: 3EH421140	S/N:
TRANSPONDER #2	MAKE:	MODEL:	S/N:
DATE: 04/15/2022	WO: 10609	INSPECTOR:	
CAROLINA AVIONICS GROUP, LLC FAA APPROVED REPAIR STATION # QCCR-389K			

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Reg #: N464DS
AC S/N: 40.1167

Make: Diamond
ACTT: 720.6

Model: DA40
Hobbs:

Tach:

1. Performed Annual/100hr inspection IAW Diamond DA40 AMM 05-28-00 and 05-28-50. AD research completed up to and including 10/17/20.
2. Found A/C compressor mounting bolt worn. Replaced with new P/N AN7-46A and NAS1291-7.
3. Found A/C compressor mount broken and replaced with new compressor P/N 2216371 S/N 24962-010-01. Reserviced A/C system IAW Seamech intl. instructions. Serviced with 1.5lbs 134a refrigerant.
4. Removed and replaced canopy handle gas strut with new P/N D41-5211-60-91 IAW Diamond DA40 AMM-TR-MAM 40-846. no defects noted.
5. Removed and replaced cabin heat seat tubing with new P/N SCAT-12.
6. Cleaned A/C condensor out as required.
7. Removed and replaced flap indicator bulb with new P/N T4.6 24-20. Ops check satisfactory.
8. Performed annual ELT test IAW 14 CFR 91.207 (d). All results satisfactory. Batteries due replacement on July 2025.

I certify that this aircraft has been inspected IAW a Annual/100 hr inspection and was found to be in airworthy condition.

All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station.

Signature:

David McBride

Date: 10/17/2020

Work Order: 20-00796

For: Avflight Rochester Corporation
1205 Scottsville Rd
Rochester, NY 14624



2041 Niagara Falls Blvd, Niagara Falls, NY 14302

Tail: N464DS A/C TT: 1027.1 Make/Model: Diamond DA-40 S/N: 40.1167

Removed R/H MLG wheel & tire assembly, disassembled wheel and inspected. Reassembled wheel using new Aero Classic 6.00-6 tube P/N GL-6020B and new Goodyear Flight Special 15X6.0-6 tire P/N 156E66B1 / S/N 93285835 - leak check complied with satisfactory. Reinstalled on aircraft as per AMM 30-40-00 and serviced with dry nitrogen.

This aircraft has been repaired and is approved for return to service with respect to the work accomplished. Pertinent details are on file at this facility under work order R00443.

Michael A. Sears Manager of Quality/Inspection

Date: November 16, 2020
Calspan Corporation CRS # 2C3R049L

13d. Name (Typed or Printed):
PAUL BRYANT

13e. Date (dd/mm/yyyy):
11/FEB/2020

User/Installer Resp

to understand that the existence of this document alone does not automatically constitute authority to accept aircraft engine(s)/propeller(s)/article(s) in accordance with the national regulations of an airworthiness authority. In all cases, aircraft maintenance



50 N Airport Drive, Buffalo, NY 14225 716-633-1000

Date: 11/29/2020

Work Accomplished:

Tail#: N464DS

DA40
S/N: 40.1167
Hobbs: 1034.0
Tach: 766.3

1. RH Tire de-beaded. C/A: Removed RH Main wheel and tire IAW DA40 AMM 32-40-00. Inspected and found damage to inner tube valve stem, no damage to wheel halves or tire noted. Replaced damaged inner tube with new 6.00x6 tube. Serviced tire IAW DA40 AMM 12-10-00 and reinstalled RH wheel/tire assy IAW DA40 AMM 32-40-00.

This Aircraft, Airframe, Aircraft Engine, Propeller or Appliance above was repaired and inspected in accordance with current maintenance rules of the Federal Aviation Administration and is approved for Return to Service. Pertinent details of the work performed above are recorded on TAC WO # BUF-000128

Evan Norman
TAC Air - BUF
WO # BUF-000128

AP # 3921908



Avflight Rochester Corporation
1205 Scottsville Rd.
Rochester, NY 14624 CRS J22R845J

Reg. #	S/N	Hobbs	Type	Date	W/O#
N464DS	40.1167	770.45	DA40	12/9/2020	20-00849

1. Engine & oil filter due. Drained engine oil, removed oil filter and cut open with no defects noted. Installed new oil filter P/N AA48110-2 and added 7 qts of Phillips XC20W-50 oil. Ran engine with no leaks noted.

All work performed IAW current FAA regulations and current manufacturers technical data. The aircraft is airworthy with respect to the work above. For details of work performed see WO# 20-00849 on file with this repair station.

Signed  Hadrian Dailey CRS J22R845J

PAGE
TOTALS

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Avflight Rochester Corporation
1205 Scottsville Rd.
Rochester, NY 14624 CRS J22R845J

Reg. #	S/N	Hobbs	Type	Date	W/O#
N464DS	40.1167	770.45	DA40	12/9/2020	20-00849

1. Engine & oil filter due. Drained engine oil, removed oil filter and cut open with no defects noted. Installed new oil filter P/N AA48110-2 and added 7 qts of Phillips XC20W-50 oil. Ran engine with no leaks noted.
2. Customer requests OSB40-088 be performed. Installed new Whelen LED wingtip lights in OSB40-088 P/N DA4-3347-23-00 and DA4-3347-24-00 IAW Diamond Aircraft work instructions WI-OSB40-088. Weight and Balance, Equipment list updated. Operation check satisfactory.
3. LH MLG tire worn. Removed and replaced LH MLG Tire with new P/N 156E66B1, S/N 00205379 and Tube P/N GL1520B IAW Diamond DA40 AMM 32-40.
4. Wooden Trim strip on left side of center console needs reattachment. Replaced mounting clip, trimmed material around mount holes & reinstalled.
5. Non-skid worn on Pilot side step. Removed worn non-skid, cleaned surface, cut new non-skid to size and installed.
6. Nose gear has violent shimmy on takeoff & landing. Removed NLG assembly. Replaced two journal bushings with new P/N EGF25215-E40-B and 1 shim P/N DIN988-25x36x0.1 IAW Diamond Aircraft AMM 32-20.

All work performed IAW current FAA regulations and current manufacturers technical data. The aircraft is airworthy with respect to the work above. For details of work performed see WO# 20-00849 on file with this repair station.

Signed  Hadrian Dailey CRS J22R845J




2041 Niagara Falls Blvd, Niagara Falls, NY 14304

Tail: N464DS Hobbs: 1050.0 Make/Model: Diamond DA40 S/N: 40.1167

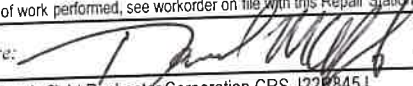

Removed right wheel and replaced tube p/n G15/600-6. Serviced tire with nitrogen and reinstalled wheel.

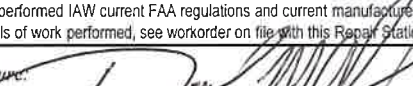

This aircraft has been inspected and is approved for return to service with respect to the work accomplished. Pertinent details are on file at this facility under work order R00450.

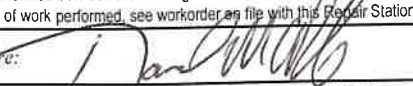


Dennis Gray, Avionics Manager

Date: December 14, 2020
Calspan Corporation, CRS# - 2C3R049L

Section 1: Airframe Log

DATE	AIR TIME	LANDINGS / CYCLES	Airframe
Reg #: N464DS AC S/N: 40.1167	Make: Diamond AC TT: 779.8	Model: DA40 Hobbs:	Tach:
1. Removed and replaced fuel control servo with serviceable P/N RSA-5AD1 IAW Precision airmotive RSA-5 and RSA-10AD1 operation and service manual. Performed ground run/ leak check and flight test satisfactory.			
2. Removed and replaced RH magneto with serviceable magneto P/N 4370. Timed magneto IAW Lycoming service instruction No. 1437. Performed ground run and flight test satisfactory.			
All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station.			
Signature: 		David McBride	Date: 01/21/2021
For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624		Work Order: 21-00882	
			

DATE	AIR TIME	LANDINGS / CYCLES	Airframe
Reg #: N464DS AC S/N: 40.1167	Make: Diamond AC TT: 820.2	Model: DA40 Hobbs:	Tach:
1. Performed 100 inspection IAW Diamond DA40 AMM 05-28-00 and 05-28-50. AD research completed up to and including 03/10/21.			
2. Installed new cowl camlock retaining rings P/N R4G on grommets as required.			
3. Replaced takeoff flap indicator bulb with new P/N T4.6 24-20. Ops check satisfactory.			
4. Replaced worn cabin heat scat tubing with new.			
5. Replaced LH and RH brake linings with new P/N 066-14100 IAW Diamond DA40 AMM 32-40-00.			
6. Removed faulty fuel pump and installed new fuel pump P/N 18002-B S/N 224657.			
I certify that this aircraft has been inspected IAW a 100hr inspection and was found to be in airworthy condition.			
All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station.			
Signature: 		David McBride	Date: 03/10/2021
For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624		Work Order: 21-00915	
			

DATE	AIR TIME	LANDINGS / CYCLES	Airframe
Reg #: N464DS AC S/N: 40.1167	Make: Diamond AC TT: 836.9	Model: DA40 Hobbs:	Tach:
1. Removed LH MLG tire and replaced with new P/N 156E66B1 S/N 00185133, new tube P/N GL-1520B, and service to within normal limits. All work performed IAW Diamond DA40 AMM 32-40-00 and Cleveland wheels CMM AWBCMM001-21/USA section 300.			
All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station.			
Signature: 		David McBride	Date: 03/21/2021
For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624		Work Order: 21-00958	
			



2041 Niagara Falls Blvd, Niagara Falls, NY 14304

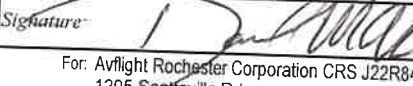

Tail: N464DS Tach: 867.4 Hobbs: 1185.1 Make/Model: Diamond DA40 S/N: 40.1167

-removed and replaced Nose Tire 5:00-5 Ply Tire & Tube 5:00-5. All work done in accordance with Diamond DA40 Manual. All results were found to be satisfactory.

This aircraft has been inspected and is approved for return to service with respect to the work accomplished. Pertinent details are on file at this facility under work order R00493.


Ben Chieffo, Accountable Manager

Date: April 8, 2021
Calspan Corporation, CRS# - 2C3R049L

DATE	AIR TIME	LANDINGS / CYCLES	Airframe
Reg #: N464DS AC S/N: 40.1167	Make: Diamond AC TT: 899.0	Model: DA40 Hobbs:	Tach:
1. Removed and replaced MLG tires and tubes with new IAW Diamond DA40 AMM 32-40-00 and Cleveland wheels and brakes CMM AWBCMM01/12-USA section 300. LH P/N GL-6020B tube P/N 30844 tire RH P/N GL-6020B tube P/N 30844 tire			
2. Removed remaining exhaust baffle assy. And installed new baffle P/N PFS-8016 IAW Power flow ICA. Reinstalled exhaust pipe on manifold and ops check satisfactory.			
All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station.			
Signature: 		David McBride	Date: 05/04/2021
For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624		Work Order: 21-01018	
			



Avflight Rochester Corporation
1205 Scottsville Rd.
Rochester, NY 14624 CRS J22R845J

Reg. #	S/N	Hobbs	Type	Date	W/O#
N464DS	40.1167	918.1	DA 40	05/20/2021	21-01032
1. 100 Hour inspection due. C/A Performed 100 hr. inspection IAW Diamond DA 40 AMM 05-28-00, and 05-28-50. I certify that the aircraft has been inspected IAW a 100 hr. inspection and was determined to be in airworthy condition.					
2. AD research due. C/A Performed AD research through 2021-10.					
3. Engine oil and filter change due. C/A Drained oil hot. Removed, inspected and replaced oil filter with new P/N 48110-2filter. Sample taken. Serviced engine with 8 qts Phillips XC 2oW50 oil. Ran engine with no leaks noted.					
4. Engine compression test due. Performed engine compression test as required. Values as follows: #1 79/80 #2 76/80 #3 74/80 #4 75/80.					
5. AD 2015-19-07 fuel injector line inspection due. C/A C/W AS 2015-19-07 visual inspection of fuel injector lines and clamps IAW Lycoming MSB 342G. No defects noted. Next due 1028.1 ACTT.					

6. Canopy gas strut weak. C/A Removed and replaced worn canopy gas strut with new P/N DAI-9052-00-10 IAW Diamond DA 40 AMM 52-10-00.
7. Rosen sun visor swivel block broken. C/A Removed and replaced broken sun visor swivel block and arm with new IAW Rosen sun visor systems assy. work instructions.
8. Pilot reports control stick feels like it has play. C/A Tightened pilot stick control as required IAW Diamond DA 40 AMM 27-30-00.
9. Battery and Alternator SCAT tubing torn and worn. C/A Removed and replaced SCAT tubing for battery and alternator cooling as required.
10. Brake discs worn to minimums on L/H and R/H wheels. C/A Replaced worn brake discs with new discs P/N 164-24400 IAW Cleveland AWBCMM0001-21/USA section 300.
11. Elevator hinges appear to have play. C/A Removed elevator, replaced worn bushings P/N EGF06080-E40-B and worn "eye-ends" P/N DA4-5520-45-00.
12. Flap position light INOP. C/A Removed and replaced flap position light P/N T 4.6 24-20

All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed see WO# 21-01032 on file with this repair station.

Signed Hadrian Dailey CRS J22R845J

Reg #: N464DS AC S/N: 40.1167	Make: Diamond ACTT: 976.3	Model: DA40 Hobbs:	Tach:	Airframe
<ol style="list-style-type: none"> 1. Performed visual exam of rudder surface and coin tap test. No structural damage found IAW Diamond DA40 AMM 51-10-00 (4) (a)(c). 2. Touched up paint around pilots side step as required. 3. Removed and replaced broken scat tubing on alternator with new SCAT4 tubing. 				
<p>All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station.</p>				
<p>Signature: <u>David McBride</u> Date: 06/14/2021 Work Order: 21-01064</p>				
<p>For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624</p>				



2041 Niagara Falls Blvd, Niagara Falls, NY 14302

Tail: N464DS Hobbs: 1292.1 Make/Model: Diamond DA40 S/N: 40.1167

Ordered replacement TAWS B enablement card p/n 010-00330-51. Enabled TAWS B feature in G1000 system. Operational check was satisfactory.

This aircraft has been inspected and is approved for return to service with respect to the work accomplished. Pertinent details are on file at this facility under work order R00511.

Dennis Gray
Dennis Gray, Avionics Manager

Date: May 28, 2021
Calspan Corporation, CRS# - 2C3R049L

Reg #: N464DS AC S/N: 40.1167	Make: Diamond ACTT: 1012.6	Model: DA40 Hobbs: 1043.9	Tach:	Airframe
<ol style="list-style-type: none"> 1. Performed 100hr inspection IAW Diamond DA40 AMM 05-28-00 and 05-28-50. AD research has been completed up to and including bi-weekly 2021-14. 2. C/W Chp4 airworthiness requirement bonding and static check IAW Diamond DA40 AMM 51-80-00. No defects noted. Next due at 200hrs. 3. C/W Chp4 airworthiness requirement essential bus check. No defects noted. Next due at 2000hrs. 4. Re-terminated broken alternator wire as required. Ops check satisfactory. 5. Re-secured pilots side interior trim piece as required. 6. Installed new sun visor snap button with new P/N 1961101 per Rosen sun visor drawing No. 1960300 rev C. 7. Replaced used air filter with new P/N FR-08504 IAW Diamond DA40 AMM 71-60-00. 8. Removed and replaced worn hardware with new on RH MLG attach points IAW Diamond DA40 AMM 32-10-00. MLG retaining bracket P/N D41-3213-01-52_1, MLG aluminum bow P/N D41-3213-01-51, locking nut P/N DIN985-M10-SP. 9. Removed and replaced mixture cable safety spring with new P/N RZ-063E-12X as required. 10. Removed lower fin, cleaned surface area, and resecured lower fin. Resealed with terostat IAW Diamond DA40 AMM 55-30-00 11. Removed and replaced all brake linings with new P/N 066-14100 IAW Diamond DA40 AMM 32-20-00. 12. Cleaned deteriorated sealant from RH passenger window and resealed with terostat IAW Diamond DA40 AMM 56-10-00. 				
<p>I certify that this aircraft has been inspected IAW a 100hr inspection and was found to be in airworthy condition.</p>				
<p>All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station.</p>				
<p>Signature: <u>David McBride</u> Date: 07/08/2021 Work Order: 21-01078</p>				
<p>For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624</p>				



2041 Niagara Falls Blvd, Niagara Falls, NY 14302

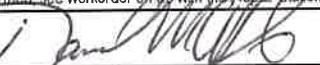

Tail: N464DS A/C TT: 1432.6 Make/Model: Diamond DA-40 S/N: 40.1167 TT 1043.9

Removed L/H MLG wheel & tire assembly, disassembled wheel and inspected. Reassembled wheel using new Condor 6.00-6/6-120 tire P/N 072-314-4 / S/N 1039T00007 - leak check complied with satisfactory. Reinstalled on aircraft as per AMM 30-40-00 and serviced with dry nitrogen.

This aircraft has been repaired and is approved for return to service with respect to the work accomplished. Pertinent details are on file at this facility under work order R00537.

Michael A. Sears
Michael A. Sears Manager of Quality/Inspection

Date: July 22, 2021
Calspan Corporation CRS# 2C3R049L

Reg #:	Make:	Model:	Airframe
N464DS	Diamond	DA40	
AC S/N: 40.1167	ACTT: 1113.4	Hobbs:	Tach:
1. Performed 100hr inspection IAW Diamond DA40 AMM 05-28-00 and 05-28-50. AD research has been completed up to and including Bi-weekly 2021-18. 2. Removed and replaced worn brake linings with new P/N 066-14100 IAW Cleveland wheels and brakes AWBCMM0001-21/USA section 300. 3. Cleaned airconditioning condenser IAW Seamech international ICA Doc. ASI-772216A. 4. Adjusted nose wheel steering friction IAW Diamond DA40 AMM 32-20-00. I certify that this aircraft has been inspected IAW a 100hr inspection and was found to be in airworthy condition. All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station. Signature:  David McBride Date: 09/01/2021 Work Order: 21-01155 For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624 			

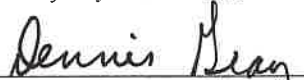


2041 Niagara Falls Blvd, Niagara Falls, NY 14304



Tail: N464DS Hobbs: 1588.5 Make/Model: Diamond DA40 S/N: 40.1167

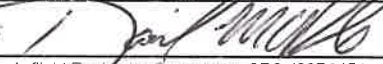

Removed MFD p/n 011-01078-01 s/n 86965429. Installed overhauled MFD p/n 011-01078-01 s/n 86965320. Loaded MFD software. Operational check was satisfactory.

This aircraft has been inspected and is approved for return to service with respect to the work accomplished. Pertinent details are on file at this facility under work order R00548.


 Dennis Gray Avionics Manager

Date: September 17, 2021
 Calspan Corporation, CRS# - 2C3R049L

Reg #:	Make:	Model:	Airframe
N464DS	Diamond	DA40	
AC S/N: 40.1167	ACTT: 1156.3	Hobbs:	Tach:
1. Removed and replaced manifold pressure transducer with serviceable P/N APT-151B-1000-20A for troubleshooting. Test flight required for in flight manifold pressure values. All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station. Signature:  David McBride Date: 09/28/2021 Work Order: 21-01155 For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624 			

Reg #:	Make:	Model:	Airframe
N464DS	Diamond	DA40	
AC S/N: 40.1167	ACTT: 1210.3	Hobbs:	Tach:
1. Performed Annual inspection IAW Diamond DA40 AMM 05-28-50 and 05-28-00. AD research completed up to and including bi-weekly 2022-02. 2. Performed annual ELT inspection IAW 14 CFR 91.207 (d) with no defects noted. Battery due replacement Oct. 2026. 3. Installed new cowl fastener retaining ring with new P/N R4G on cam loc. 4. Removed propeller and sent out for overhaul. Reinstalled propeller IAW Hartzell propellers owners manual 145 61-00-45. Ran engine with no leaks noted. Propeller overhauled by Tiffin Aire Inc. WO#25537. 5. Installed washer on A/C compressor upper bolt as required. 6. Replaced missing screw on #3 Cylinder baffle with new P/N STD1925 as required. 7. Replaced worn adel clamp on A/C compressor line as required. 8. Inspected wear on A/C line frie sleeve with no leaks noted. Added high temp RTV 736 to prevent chaffing. 9. Removed and replaced emergency battery pack with new D41-2560-93-00 IAW Diamond DA40 AMM 24-32-00. Next due 01/24. 10. Replaced brake linings W/new P/N 066-14100 IAW Cleveland wheels and brakes CMM AWBCMM 0001-21/USA section 300. 11. Cleaned airconditioning condensor with soap and water. 12. Performed RSB40-094 installation of fire sleeve on fuel lines IAW WI-RSB 40-094 Rev. 0. No leaks noted. 13. Removed serviceable manifold pressure transducer installed for troubleshooting and replaced with new P/N APT-151B-1000-20A. I certify that this aircraft has been inspected IAW an Annual inspection and was found to be in airworthy condition. All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed, see workorder on file with this Repair Station. Signature:  David McBride Date: 01/25/2022 Work Order: 22-01215 For: Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624 			

wo: WO_1083



Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

N464DS

Diamond, DA-40, S/N: 40.1167

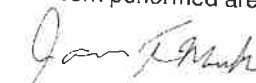
Airframe (Inspection) - page 1 of 1

January 25, 2022

Repaired paint defects on rudder as required. Painted to match and balanced as required per Diamond aircraft maintenance manual section 51-60.

I certify that this airframe was inspected in accordance with an annual inspection, and that this airframe has been determined airworthy and approved for return to service. Details of work performed are on file with Take Flight Aviation LLC under work order: WO_1083.

James T. Markey IA AP3166872IA



Section 1: Airframe Log

DATE	AIR TIME	LANDINGS / CYCLES
Reg #: N464DS AC S/N: 40.1167 1. C/W power flow exhaust continued airworthiness disassembled, inspected and lubricated IAW MM PFS-15250-00. All work performed IAW current FAA regulations and current manufacturers technical data. The article is airworthy with respect to the work above. For details of work performed see workorder on file with this Repair Station. Signature: [Signature] David McBride Date: 01/25/2022 For Avflight Rochester Corporation CRS J22R845J 1205 Scottsville Rd Rochester, NY 14624		

MAKE: Diamond
MODEL: DA 40
S/N: 40.1167
REG. NO: 464DS
WORK ORDER:
9701-02-2022

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

DATE: 2/14/2022
A/C TSN: 1218.7
TACH: 1218.7

Airframe Entries
(4) C/W ICA GARMIN GFC700 FLAP IN-MOTION INPUT CHECK IAW G1000 WITH GFC700 DIAMOND MANUAL 190-00545-01. OPS CHECK GOOD
(5) C/W ICA GARMIN G1000 REPLACEMENT OF 5 LIGHTNING PROTECTION SLOW BLOW FUSES IAW GARMIN G1000 MANUAL FOR DIAMOND AIRCRAFT.
(8) C/W ICA CABIN COOL AIR CONDITIONING SYSTEM IAW DOC ASI-772216A
(9) C/W 1 YR AUTOPILOT CABLE TENSION CHECK IAW DA40 MM CH 22-10.
(12) C/W 5 YR ELT REMOTE SWITCH BATTERY REPLACEMENT. NEXT DUE 02/2027.
(15) C/W 10 YR FIRE EXTINGUISHER REPLACEMENT WITH NEW P/N A344T.
(18) PAINTED ENGINE COWLINGS WITH FIRE RETARDANT IAW DA40-180 MM CH 71-10.

DATE: 2/14/2022
SIGNED: [Signature] EMMANUEL VICIOSO
CRS 9PRR402B
Work Order: 9701-02-2022
Printed by EBis 3 (datcomedia.com)

SouthTecAviation
3330 AIRPORT LOOP
SALISBURY, NC 28147
OFFICE: 704-431-6862
INFO@SOUTHTECAVIATION.COM

DATE: MARCH 16, 2022 | DIAMOND DA40-180 | S/N: 40.1167 | REG: N464DS
TACH: UNKNOWN. TTAF: UNKNOWN

REMOVED GARMIN GTX345R S/N 3EH420259 FOR CORE EXCHANGE.
INSTALLED GARMIN GTX345R P/N 011-03303-40 S/N 3EH421311 "OVERHAULED"
GTX345R WAS PROGRAMMED FOR THE DIAMOND DA40-180 N464DS
OPERATIONAL CHECKS PERFORMED AND DETERMINED OPERATING NORMALLY.

[Signature]
GLENN M. LAWLER
A&P 2151929IA

Carolina Avionics Group, LLC 3650 Airport Loop Road Salisbury, NC 28147
LOG ID# 1008 15-March-2022 HOBBS 1727.0
N464DS S/N 40-1167 DIAMOND/KATANA DA 40
Pg 1 / 1

Removed defective transponder Garmin GTX-345R P/N011-03303-40 S/N 3EH420259. Installed factory overhauled unit P/N 011-03303-40 S/N 3EH421311. G1000 system was reconfigured to incorporate GTX-345R Software level 2.60 referencing SB 2152. All work performed referencing Garmin GTX-345 Installation Manual.
Carolina Avionics Group work order 10564 for compliance of FAR 91.413.
[Signature] 03/15/2022
QCCR-389K Silvio Reinhe Date

FAR 91.413
THE ATC TRANSPONDERS AND INSPECTIONS AS REQUIRED BY FAR 91.413 WERE PERFORMED THIS DATE AND FOUND TO COMPLY WITH PART 43 APPENDIX F AND APPENDIX E PARAGRAPH C.

TRANSPONDER #1	MAKE: Garmin	MODEL: GTX-345R	S/N: 3EH421311
TRANSPONDER #2	MAKE: -	MODEL: -	S/N: -
DATE: 03/15/2022	WO: 10564	INSPECTOR: [Signature]	

N464DS CAROLINA AVIONICS GROUP, LLC
FAA APPROVED REPAIR STATION # QCCR-389K

FAR 91.413
THE ATC TRANSPONDERS AND INSPECTIONS AS REQUIRED BY FAR 91.413 WERE PERFORMED THIS DATE AND FOUND TO COMPLY WITH PART 43 APPENDIX F AND APPENDIX E PARAGRAPH C.

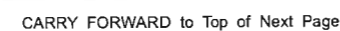
TRANSPONDER #1	MAKE: Garmin	MODEL: GTX345R	S/N: 3EH421140
TRANSPONDER #2	MAKE: -	MODEL: -	S/N: -
DATE: 12-20-2022	WO: 11026	INSPECTOR: Richard Ellington	

N464DS CAROLINA AVIONICS GROUP, LLC
FAA APPROVED REPAIR STATION # QCCR-389K

FAR 91.411
ALTIMETERS, ALTITUDE REPORTING EQUIPMENT AND STATIC PRESSURE SYSTEM HAVE BEEN CHECKED AND MEET ALL SPECIFICATIONS OF APPENDIX E PART 43

ALTIMETER CERTIFIED TO			
LEFT	FEET	RIGHT	FEET
	20,000		20,000
S/N: 20613515		S/N: 494350	
DATE: 12-20-2022	WO: 11026	INSPECTOR: Richard Ellington	

N464DS CAROLINA AVIONICS GROUP, LLC
FAA APPROVED REPAIR STATION # QCCR-389K

[illegible]

Section 1: Airframe Log



Air America Aviation Services
28331 Lemoyne Rd
Millbury OH 43447
800-942-4723 (419) 837-2602

Make: DIAMOND AIRCRAFT IND INC
Model: DA 40
Tail: N464DS
S/N: 40.1167

(REPLACEMENT)

Hours: Hobbs:1898.4

8521LS SN#: H-M090447 alternator and replace with new ALU-8521LS SN#: H-X050456. Remove replaced with new P#: VR2000-28-1 S#:80Y35122. Run up, leak check and operational check certify that this Engine has been determined to be in airworthy condition and returned to service on this time.-----END-----

[Signature]
Miller

Cert: A & P 3558606 IA

Date: 08/01/2023

GRIFFING
LYING SERVICE

3255 E. State Rd., Port Clinton, OH 44862
Phone: 419-734-5400 Text: 419-210-1892
flygriffing.com

2024	N464DS	TACH	N/A	HOBBS	2007.80	ELT BAT	N/A
		TTAF	N/A		ALT/TRANSPONDER		N/A

H MAIN TIRES WORN TO LIMITS. REPLACED LEFT AND RIGHT MAIN TIRES P/N 301-006 AND TUBES P/N 302-246-401. ALL ABOVE WORK DONE IN ACCORDANCE WITH DIAMOND DA40-180 MAINTENANCE MANUAL. AIRCRAFT APPROVED FOR RETURN SERVICE.

I certify that only the work performed has been inspected
and returned to service in an airworthy condition.

[Signature] AP 489 15 17 JA



Air America Aviation Services
28331 Lemoyne Rd
Millbury OH 43447
800-942-4723 (419) 837-2602

Make: DIAMOND AIRCRAFT IND INC
Model: DA 40
Tail: N464DS
S/N: 40.1167

Hours: Tach: 2042.6 AFTT:2042.6

Inspected airframe per Diamond Aircraft 100HR / Annual inspection check list and FAR 43 Appendix "D" in scope and detail. Replace worn nose wheel with new Goodyear 5.00- 5 tire p#: 505C61-8. New 5.00-5 leak guard tube. Evaporator coil has screws pulled thru belly. Removed pilot, co-pilot and passenger seats. Removed scoop and coil assembly Installed large area washers and new screws. Reinstalled scoop and coil assembly. Lubed all hinge points and pulleys. Completed AD check and compliance thru 24-04. All AD's current as of this date and total time. I certify that this aircraft has been inspected in accordance with an 100 hr / annual inspection and was determined to be in airworthy condition and returned to service on this date and total time.-----End-----

Signed:

Name: Jonah T. Neary

Cert: A&P 3870576 IA

Date: 04/08/2024