

N649DA  
42.N334

# AIRCRAFT TECHNICAL RECORD

Section 1. AIRFRAME LOG



AIRCRAFT DATA

- 1. Nationality & Registration N649DA
- 2. Manufacturer's Designation (Make & Model) DA 42NG
- 3. Manufacturer's Serial Number 42.N334
- 4. Type Approval or Specification Number A57CE
- 5. Date of Manufacture May 2018
- 6. Aircraft Inspection Cycle FAR 43 Appx. D





# Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL	
	HRS	MIN	HOURS	MIN			
CARRIED FORWARD			31.08				



DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED MAINTENANCE  
ORGANIZATION 161-93

Registration: N649DA  
Airframe Total Time: 31.08  
Engine LH SN: E4-C-00454  
Engine LH TT: 31.08  
Prop LH SN: 180211  
Prop LH TT: 31.08

AC Serial Number: 42 N334  
Work Order: SO 071857  
Engine RH SN: E4-C-00455  
Engine RH TT: 31.08  
Prop RH SN: 180214  
Prop RH TT: 31.08

- Aircraft Imported as "N649DA"
- Previous Entries Taken from Factory & Ferry Log
  - Total Production Test Flight Time: 5.12 hrs May 15, 2018 thru June 5, 2018 LOAN
  - Ferry Flight: 25.96 hrs June 6, 2018 thru June 8, 2018 LOAN - CYXU
  - **Total Time Brought Forward: 31.08 hrs**
- Compass swing performed (information transferred from **Original Production Records**):
  - Date: May 09, 2018

FOR	N	30	60	E	120	150
STEER	360	030	061	090	120	151
FOR	S	210	240	W	300	330
STEER	181	211	241	271	300	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 below taken from **Original Production Records**.

<u>Static Pressure System:</u>	<u>Stand By Altimeter:</u>
Test Date: May 08, 2018	Test Date: May 08, 2018
Next Due: May 08, 2020	Next Due: May 08, 2020

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness.

ACA



JUL 03 2018

Date:

Continued...

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DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED MAINTENANCE  
ORGANIZATION 161-93

Registration: N649DA  
Airframe Total Time: 31.08

AC Serial Number: 42 N334  
Work Order: SO 071857

- ATC Transponder & Altitude Reporting System(s) have been tested in Accordance with CAR Standard 571, Appendix F and 14CFR 91.217: & 91.413: Test date below taken from Original Production Record.
  - TXPR re-programmed:
    - USA Registration: N649DA
    - Hex Code: A886F6
  - IGRF 2015
- Test Date: May 08, 2018 Programmed Reg: N649DA
- ATC Transponder & Altitude Reporting System(s) have been tested in Accordance with CAR Standard 571, Appendix F and 14CFR 91.217: & 91.413: Test date below taken from Original Production Record.

**Garmin G1000 Installation:**

Software Version:	1916.02	FliteCharts Expiry:	2018-06-21
Obstacle Database Expiry:	2018-07-19	SafeTaxi Expiry:	2018-07-19
Navigation Database Expiry:	2018-07-19	ChartView Expiry:	2018-06-14
GTX 33 Software Version:	N/A	Apt Directory Expiry:	2018-07-19

- Following limitations as per DA 42 NG AMM (Doc# 7.02.15) Rev. 3, Chapter: 04 - Subject to change with AMM revision, always refer to latest revision

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness



JUL 03 2018

ACA \_\_\_\_\_ Date: \_\_\_\_\_

Continued...



DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED MAINTENANCE  
ORGANIZATION 151-93

Registration: N649DA  
Airframe Total Time: 31.08

AC Serial Number: 42 N334  
Work Order: SO 071857

**Certification Maintenance Requirements:**

ATA Ch.	Component	Hours	Years	Next Due
51	Bonding System and static discharging system	1000	4	1000 hrs / May 08, 2022

**Replacement Requirements:**

ATA Ch.	Component	Hours	Years	Next Due
24	Emergency battery package	-	2	April 17, 2020
24	ECU backup batteries L/H / R/H	-	1	May 08, 2019

- ELT Installation:
  - Programmed: N649DA
  - ELT Battery Due Date: June 1, 2024
  - ELT S/N: LX1100560582

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness



JUL 03 2018

ACA \_\_\_\_\_ Date: \_\_\_\_\_  
Continued...



# Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL	
	HRS	MIN	HOURS	MIN			
			31	08			

CARRIED FORWARD



DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED MAINTENANCE  
ORGANIZATION161-93

Registration: N649DA  
Airframe Total Time: 31.08

AC Serial Number: 42.N334  
Work Order: SO 071857

**Import Summary:**

- Aircraft Imported with Export Certificate of Airworthiness, No. 2858/18, dated June 05, 2018
- USA Registration Letters "N649DA" installed on fuselage side surface I.A.W. FAR45.25 (b) (2).
- ELT reprogrammed Hex ID ADC verified for Red. No. "N649DA"
- ELT function checked I.A.W. CAR 571 appendix G and FAR 91.207 par D.
- Aircraft and documentation inspected for Major Mod's and/or STC's incorporated, none found.
- All applicable Airworthiness Directives, Service Bulletins complied with. See attached report.
- AWD Bi-weekly checked thru 2018-13
- Aircraft and documentation reviewed, aircraft found to be in the same configuration as "Factory W&B Report" dated May 4, 2018.
  - o Current Empty Weight = 1503.5 kg OR 3314.65 lbs
  - o Current Empty C of G = 2.435 m OR 95.87 in
  - o Max Ramp Weight = 1999.0 kg OR 4407.0 lbs
  - o Current Useful Load = 495.5 kg OR 1092.39 lbs
  - o See Current W&B Report and AFM 7.01.16-E, Chapter 6.

I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO TYPE CERTIFICATE: A57CE Revision No. 24 AND IS IN A FIT AND SAFE STATE FOR FLIGHT

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness

ACA AMO 161-93

Date: JUL 03 2018

End



DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED MAINTENANCE  
ORGANIZATION161-93

Registration: N649DA  
Airframe Total Time: 32.4

AC Serial Number: 42.N334  
Work Order: SO 071857

**Maintenance Performed:**

- LH Aileron short rod adjusted 1 turn shorter
- LH outboard flap re-shimmed for pre-load
- Pilot seat hydrolock button re-secured in seat

I have carried out an independent inspection of the Flight controls/power plant controls affected by the work accomplished

ACA AMO 161-93

Date: JUL 16 2018

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness

ACA AMO 161-93

Date: JUL 16 2018

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SIGNATURE

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AMO/ACA

*NOT  
USED*

Aircraft Serial Number 42.N334 was issued a Standard Certificate of Airworthiness on: July 4, 2018  
This Aircraft to be Maintained per the Manufacturers Inspection Program.



Ron Sokolowski DART 710613EA



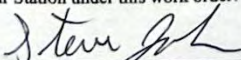
**EMBRY-RIDDLE  
AERONAUTICAL UNIVERSITY**

I certify that this **AIRCRAFT-DA 42NG (N649DA)** has been inspected in accordance with an **Annual Inspection** and was found to be in an airworthy condition.  
Time in Service: 97.8

Complied with: **Annual Inspection**

Serviced: hyd. fluid, battery, & tires. Cleaned & lubed landing gear. Insp. ELT & battery, expiration date (06-2024) & **FAR 91.207** Date due (07-2019). Performed retraction test and emergency gear extension. C/W Diamond MSB42NG-077 (pilot side gust lock). Replaced one LT engine coolant tank isolator. All work accomplished in accordance with appropriate sections of DA42NG AMM and Austro Engine E4 Series MM.

The aircraft, airframe, aircraft engine or appliance identified above was inspected and repaired in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details of the repair/inspection are on file at the Repair Station under this work order: WO # **RMS 2018 04689** Date: **18 SEPT 2018**

Signed:  Repair Station N3XR816N.

A/C TOTAL TIME : 97.8  
ENG TOTAL TIME : L: 97.8 R: 97.8  
ENG T.S.M.O.H. : L: N/A R: N/A  
TACH TIME : 97.8  
PROP T.S.M.O.H. : L: N/A R: N/A  
PROP TOTAL TIME: L: 97.8 R: 97.8

Steve Johnson **ERAU 9**  
N3XR816N 7691



# Section 1: Airframe Log

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

## DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)



**N649DA**

Total Time: 130.2  
Tach Time: 130.2

Serviced the accumulator I.A.W. the Diamond AMM section 29-10. Inspected Hydraulic system for external leaks. Per Diamond Aircraft request drained, flushed, and replenished landing gear hydraulic system. cleaned and inspected hydraulic filter. Cycled landing gear, checked operation and left powered up and extended for 1 hour with no gear motor cycling noted.

The aircraft, airframe, aircraft engine or appliance identified above was inspected and repaired in accordance with current regulations of the Federal Aviation Administration and is accepted for return to service. Pertinent details of the repair/inspection are on file at the Repair Station under this work order: WO # **RMS 2018 05004** Date: **10/5/18**

Signed: *Chris Brooks* Repair Station N3XR816N.

**Chris Brooks ERAU 48**  
**N3XR816N 2799**



DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED MAINTENANCE ORGANIZATION 161-93

Registration: N649DA AC Serial Number: 42.N334  
Airframe Total Time: 171.5 Work Order: SO 072010  
Engine LH SN: E4-C-00454 Engine RH SN: E4-C-00455  
Engine LH TT: 171.5 Engine RH TT: 171.5  
Prop LH SN: 180211 Prop RH SN: 180214  
Prop LH TT: 171.5 Prop RH TT: 171.5

**Routine Maintenance: airframe log**

- 200 hr Inspection Carried Out on Airframe, Engines and Propellers IAW DA 42NG AMM Ch 05
- G1000 databases updated:
- Navigation / Flightcharts data expires : Dec 06, 2018
- Obstacle/ Apt Directory/ SafeTaxi expires : Jan 03, 2019
- LH MLG tire replaced, SN: 72065883 removed and SN: 803358 installed
- RH MLG tire replaced, SN: 72485693 removed and SN: 72495623 installed
- LH and RH Air filter replaced with new
- LH Engine, FWD / LH shock mount replaced with new
- RH Engine, FWD / LH shock mount replaced with new
- L/H Canopy guide bushing replaced with new.
- MSB 42NG-077, inspected and found PCW (pilot side gust lock)
- FAA Bi-Weekly AD Review, 2018-23 complied with

2018-07-16 - Waste Gate - found CWV  
2017-01-12 - NA due to engine installation  
2018-08-02 - AFM 17R is incorporated into the current rev of AFM  
Timing Chain replacement, if required, due at 945Hrs ETT

I have carried out an independent inspection of the Flight controls/power plant controls affected by the work accomplished

ACA *[Signature]* Date: **NOV 20 2018**

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness

ACA *[Signature]* Date: **NOV 20 2018**



DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED MAINTENANCE ORGANIZATION 161-93

Registration: N649DA AC Serial Number: 42.N334  
Airframe Total Time: 171.5 Work Order: SO 072010  
Engine LH SN: E4-C-00454 Engine RH SN: E4-C-00455  
Engine LH TT: 171.5 Engine RH TT: 171.5  
Prop LH SN: 180211 Prop RH SN: 180214  
Prop LH TT: 171.5 Prop RH TT: 171.5

**NON-Routine Maintenance: airframe log**

- GDL 69 installed IAW Diamond Optional Installation OAM42-116/a
- GTX 345R installed IAW STC SA01714W
- Transponder correlation requirements completed in accordance with 571 appendix F, 571.10, Appendix B paragraph (a)4(1) of the CARs, FAR 91.411, FAR 91.413, FAR 43 appendix E & F.  
Transponder: GTX 345R, SN: 3EH021226 - Next check due: Nov 2020
- The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR 91.227.
- See FAA 337 FORM's attached here-in
- Equipment list amended as required
- W&B Report Amended:
- New empty weight: 3317.61 lbs
- New Empty C of G: 95.928 in

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness

ACA *[Signature]* Date: **NOV 20 2018**



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NAME/  
SIGNATURE

LICENCE:  
AME or  
AMO/JACA



DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED MAINTENANCE  
ORGANIZATION 161-93

Registration:	N649DA	AC Serial Number:	42 N334
Airframe Total Time:	172.8	Work Order:	SO 072010
Engine LH SN:	E4-C-00454	Engine RH SN:	E4-C-00455
Engine LH TT:	172.8	Engine RH TT:	172.8
Prop LH SN:	180211	Prop RH SN:	180214
Prop LH TT:	172.8	Prop RH TT:	172.8

NON-Routine Maintenance: airframe log

- RH Engine governor adjusted to increase RPM
- Replaced canopy spray bar with new
- Replaced windshield washer pump #1 with new
  - SN Off: CAVI17K614
  - SN ON: CAVI18070505

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness

ACA



Date: **NOV 27 2018**



DIAMOND AIRCRAFT IND.  
D.O.T. APPROVED MAINTENANCE  
ORGANIZATION 161-93

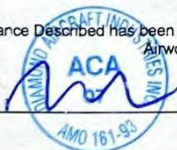
Registration:	N649DA	AC Serial Number:	42 N334
Airframe Total Time:	173.7	Work Order:	SO 072010
Engine LH SN:	E4-C-00454	Engine RH SN:	E4-C-00455
Engine LH TT:	173.7	Engine RH TT:	173.7
Prop LH SN:	180211	Prop RH SN:	180214
Prop LH TT:	173.7	Prop RH TT:	173.7

NON-Routine Maintenance:

- Replaced both main TKS filters due to high de-ice pressure annunciation
- Replaced 1/2" main TKS hose between high pressure switch and windshield pump panel T fitting

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness

ACA



Date: **Dec 4/18**

5/24/19

TACH 234.6

Canopy has a 3/4" crack from vent window extending up from vent. Stop drilled top of crack to prevent crack from extending drilled a 3/32 hole and deburred hole inside and out.

Shaun Scott AP 3320812 IA

7/18/15 Removed left engine bottom nicelle panel. Removed TACH-251-9 safety wire from leaking fuel drain, installed new seal and safety wired drain. Installed panel.

Shaun Scott AP 3320812 IA



# Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL	
	HRS	MIN	HOURS	MIN			
CARRIED FORWARD							

N649AD S/N 42.N334  
(972)988-8609

AVIATOR AIR 3122 Great Southwest Parkway Grand Prairie, TX 75052

Date: Nov 12, 2019 Tach: 267.4 AcftTT: 267.4 Performed a 300hr/Annual inspection in reference to FAR Part 43 appendix (d) and Austro E4C engine maintenance manual E4.08.04. Inspected the ELT in accordance with 14 CFR 91.207(d) by inspecting the mounting, the battery and performing a functional check. Found to be OK. Battery expires 6/24. Inspected the fire extinguisher and its mounting. Installed new ground strap on nose land gear. Lubricated airframe in reference to DA-42 AMM lubrication schedule. Performed inspection of aircraft drain holes. Installed new camlock grommets where needed P/N DG40G11-3K. Installed new floodlight switch P/N KSU5021R24. Performed landing gear extension, retraction and emergency extension Found to be ok. Researched for new A.D.'s through Biweekly 2019-23. I certify that this aircraft has been inspected in accordance with an annual / 300hr inspection and was determined airworthy.  
Steve O'Brien A&P3397718 IA



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

DATE: JUNE 16, 2020 | DIAMOND DA42 NG | S/N: 42.N334 | REG: N649DA  
TACH: 307.0 HRS. TTAF: 307.0 HRS.

REPLACED CANOPY WITH NEW, P/N:(D60-5210-20-00X06). WORK COMPLETED IN ACCORDANCE WITH DIAMOND AIRCRAFT **WI-OSB 42NG-028**, INSTALLATION OF A TALL CANOPY BUBBLE ON THE EXISTING CANOPY FRAME, DATED MARCH 14, 2013. MADE MINOR REPAIR TO FRONT LEFT OF CANOPY FRAME. PAINTED OVER REPAIR AND BLENDED INTO FUSELAGE. REMOVED SEALANT FROM RIGHT REAR WINDOW, REMOVED WINDOW AND REINSTALLED WITH NEW SEALANT, MARINE 4200 FAST CURE BLACK SEALANT. SANDED, PRIMED, AND PAINTED RIGHT REAR WINDOW BLENDED INTO CANOPY AND BUFFED. REPLACED RUBBER GROMMETS ON COWL CAMLOCKS, P/N: (D40G11-3K). REMOVED MAP LIGHT, TESTED OK, AND REINSTALLED. CLEANED AND TIGHTENED CLAMPS ON VENT LINE ON RIGHT COWL VENT TO PREVENT OIL IN COWL. REPLACED MISSING RUBBER STOP ON RIGHT INNER FLAP. CHECKED FAULTS FOR PARTIAL POWER LOSS ON RIGHT ENGINE. BOTH ECU'S FAILED ON CLIMB OUT, OK AFTER THROTTLED BACK TO 60% POWER. CHECKED FAULTS ON COMPUTER. SERVICED LEFT ENGINE COOLANT, TOPPED OFF WITH PEAK EXTENDED LIFE BLUE ANTIFREEZE AND COOLANT. INSPECTED REAR DOOR FOR RATTLING DURING TAXIING, NO FAULTS NOTED. AIR CONDITIONING QUIT WORKING UPON FLIGHT TO KRUQ. OPENED UP A/C COMPRESSOR AND INSPECTED FOR FAULTS. NONE NOTED. REMOVED A/C UNIT AND TESTED FOR REFRIGERANT, FOUND EMPTY, RECHARGED A/C SYSTEM. STALL HEAT FAILED. TROUBLESHOT, NO STALL HEAT. FLOOD LAMP NOT WORKING. INSTALLED NEW DC TO AC POWER SUPPLY. INSTALLED INVERTER FLOOD LAMP, P/N: (APVL328-8-3-L-18QF).

WORK COMPLETED IN ACCORDANCE WITH DIAMOND AIRCRAFT DA42 NG AMM.

*Glenn Lawler*

GLENN LAWLER

A&P 2151929 IA

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MAKE: Diamond  
MODEL: DA42NG  
S/N: 42.N334  
REG. NO: N649DA  
WORK ORDER: 0128



**Premier Aircraft Sales, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 7/23/2020  
A/C TSN: 312.7  
HOBBBS: 0

**Airframe Entries**

- Installed hobbs meter P/N 85094+ on instrument panel, fused to left alternator switch.
- Replaced ECU batteries P/N LC-R127R2P and LC-RA1212P1
- Replaced emergency battery P/N D60-2560-91-00

DATE: 7/23/2020

SIGNED:

Chad Cox, License: AP3782800

Work Order: 0128

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MAKE: Diamond  
MODEL: DA42NG  
S/N: 42.N334  
REG. NO: N649DA  
WORK ORDER: 0149



**Premier Aircraft Sales, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 8/18/2020  
A/C TSN: 345.6  
HOBBBS: 50.9

**Airframe Entries**

- Replaced main battery with new P/N RG24-15M S/N 41104943

DATE: 8/18/2020

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0149

Printed by EBis 3 (datcomedia.com)

MAKE: Diamond  
MODEL: DA42NG  
S/N: 42.N334  
REG. NO: N649DA  
WORK ORDER: 0150



**Premier Aircraft Sales, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 8/19/2020  
A/C TSN: 347.2  
TACH: 347.2

**Airframe Entries**

- Pilot reported fuel contamination. Flushed tanks, drained and tested fuel for contaminants, none found.

DATE: 8/19/2020

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0150

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MAKE: Diamond  
MODEL: DA42NG  
S/N: 42.N334  
REG. NO: N649DA  
WORK ORDER: 0148



**Premier Aircraft Sales, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 8/20/2020  
A/C TSN: 347.7  
HOBBBS: 54.4

**Airframe Entries**

- Replaced instrument/flood light EL panel P/N DA4-3311-10-02
- Replaced RH alternator switch P/N 7101K2ZQE

DATE: 8/20/2020

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0148

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# Section 1: Airframe Log

MAKE: Diamond  
 MODEL: DA42NG  
 S/N: 42 N334  
 REG. NO: N649DA  
 WORK ORDER: 0165



## Premier Aircraft Service, Inc.

3804 Falcon Way W  
 Hangar 18S  
 Fort Worth, TX 76106  
 Phone: 562.881.5345

DATE: 9/4/2020  
 A/C TSN: 362.3  
 HOBBS: 77.5

### Airframe Entries

- Performed 100 Hour Inspection using DA42NG AMM as a guide.
- Inspected ELT system IAW 14 CFR 91.207(d).
- Replaced fuel filters.
- Complied with 100 Hour lubrication.
- Replaced all brake linings.

DATE: 9/4/2020

SIGNED:

Chad Cox, License: AP3782800

Work Order: 0165

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MAKE: Diamond  
 MODEL: DA42NG  
 S/N: 42 N334  
 REG. NO: N649DA  
 WORK ORDER: 0209



## Premier Aircraft Service, Inc.

3804 Falcon Way W  
 Hangar 18S  
 Fort Worth, TX 76106  
 Phone: 562.881.5345

DATE: 11/9/2020  
 A/C TSN: 416.3  
 HOBBS: 158

### Airframe Entries

- Replaced main tires and tubes

DATE: 11/9/2020

SIGNED:

Chad Cox, License: AP3782800

Work Order: 0209

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MAKE: Diamond  
 MODEL: DA42NG  
 S/N: 42 N334  
 REG. NO: N649DA  
 WORK ORDER: 0152



## Premier Aircraft Service, Inc.

3804 Falcon Way W  
 Hangar 18S  
 Fort Worth, TX 76106  
 Phone: 562.881.5345

DATE: 12/3/2020  
 A/C TSN: 434.1  
 FLIGHTTIME: 434.1

### Airframe Entries

- Replaced hydraulic pump pressure switch 908786
- MSB42NG-082 Modified rudder gap covers

DATE: 12/3/2020

SIGNED:

Chad Cox, License: AP3782800

Work Order: 0152

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MAKE: Diamond  
 MODEL: DA42NG  
 S/N: 42 N334  
 REG. NO: N649DA  
 WORK ORDER: 0223



## Premier Aircraft Service, Inc.

3804 Falcon Way W  
 Hangar 18S  
 Fort Worth, TX 76106  
 Phone: 562.881.5345

DATE: 12/3/2020  
 A/C TSN: 434.1  
 HOBBS: 183.9

### Airframe Entries

- Performed Annual Inspection using DA42NG AMM as a guide.
- Inspected ELT system IAW 14 CFR 91.207(d).
- Replaced ECU backup batteries.
- Replaced fuel filters.
- Complied with 100 Hour lubrication.
- Replaced induction air filters RU-1620

I certify this aircraft has been inspected IAW an Annual Inspection and was determined to be in airworthy condition.

DATE: 12/3/2020

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0223

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Nova Avionics  
 Midway Regional Airport  
 131 Airport Dr., Ste. 114  
 Midlothian, Texas 76065.  
 F.A.A. Repair Station # N2SR863J

Date **DEC 4, 2020**  
 Phone # 817-420-3270  
 WO# **103579**

**IFR**

In this Aircraft, the Altitude Reporting Equipment and Transponder have been tested and inspected as required by  
 FAR 91.411 I.A.W. FAR 43 Appendix E and  
 FAR 91.413 I.A.W. FAR 43 Appendix F

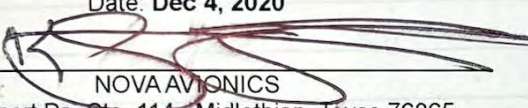
Static System Date: **DEC 4, 2020** Altimeter: **G1000 PFD**  
 Tested to **20,000** feet, Transponder type **GTX 345**  
 S/N **3EH021226** Work Order No. **103579**

Signature  **CRSM N2SR863J**

**MAINTENANCE RELEASE**

The Aircraft, Airframe, or Article Identified was repaired and inspected in accordance with current FAA Regulations and was found airworthy for Return to Service only for the work performed. Pertinent details of the repair are on file at this Repair Station N2SR863J

Work Order **103579**  
 Date: **Dec 4, 2020**

Signed   
**NOVA AVIONICS**  
 131 Airport Dr., Ste. 114, Midlothian, Texas 76065  
 Midlothian Regional Airport

NOM ENCLATURE G1000 PFD		SERIAL NO. 494001272	
TEST PT (FT)	INDICATOR READING	TEST PT (FT)	INDICATOR READING
00	-10	16,000	15,990
500	490	18,000	17,990
1,000	990	20,000	18,990
1,500	1,490	22,000	-
2,000	1,990	25,000	-
2,500	2,490		
3,000	2,990		
4,000	3,990		
5,000	4,990		
6,000	5,990		
8,000	7,990		
10,000	9,990		
12,000	11,990		
14,000	13,990		

**ALTIMETER SCALE ERROR**

**50% H - 10- = 40% H - 10-**

Nova Avionics CRSM N2SR863J  
 Midlothian TX.  
 This altimeter has been tested I.A.W.  
 FAR 91.411 and FAR 43 appendix E

to 20,000 Feet Date: 12-DEC-2020

MAKE: Diamond  
 MODEL: DA42NG  
 S/N: 42.N334  
 REG. NO: N649DA  
 WORK ORDER: 0267



**Premier Aircraft Service, Inc.**

3804 Falcon Way W  
 Hangar 18S  
 Fort Worth, TX 76106  
 Phone: 562.881.5345

DATE: 2/12/2021  
 A/C TSN: 529.7  
 HOBBS: 324.5

**Airframe Entries**

- Performed 100 Hour Inspection using DA42NG AMM as a guide
- Inspected ELT system IAW 14 CFR 91.207(d)
- Replaced fuel filters
- Complied with 100 Hour lubrication
- Replaced flood light inverter with new APVL328-4-1-L-5QF
- Replaced RH brake linings

I certify this aircraft has been inspected IAW a 100 Hour Inspection and was determined to be in airworthy condition.

DATE: 2/12/2021

SIGNED: 

David Seastead. License: AP3492477 IA

Work Order: 0267

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# Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL	
	HRS	MIN	HOURS	MIN			
CARRIED FORWARD							

MAKE: Diamond  
MODEL: DA42NG  
S/N: 42.N334  
REG. NO: N649DA  
WORK ORDER: 0289



**Premier Aircraft Service, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 3/17/2021  
A/C TSN: 578.5  
HOBS: 401.3

**Airframe Entries**

- Cleaned LH boost pump prefilters and cleared RH FADEC faults

DATE: 3/17/2021

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0289

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ENGINE MODEL: AE300  
ENGINE S/N (L): E4-C-00454  
REG. NO: N649DA  
WORK ORDER: 0289



**Premier Aircraft Service, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 3/17/2021  
A/C TSN: 578.5  
ENG TT (L): 578.5  
HOBS: 401.3

**Left Engine Entries**

- Swapped governors L-R for troubleshooting. Installed S/N 17G826-IG

DATE: 3/17/2021

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0289

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ENGINE MODEL: AE300  
ENGINE S/N (R): E4-C-00455  
REG. NO: N649DA  
WORK ORDER: 0289



**Premier Aircraft Service, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 3/17/2021  
A/C TSN: 578.5  
ENG TT (R): 578.5  
HOBS: 401.3

**Right Engine Entries**

- Replaced governor with new P877-16 S/N 19G913-IG

DATE: 3/17/2021

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0289

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03-25-21						Jacked AC in order to remove nose tire. Replaced nose tire & tube with new High Speed II and new SOX5 tube. Packed wheel bearings and reinstalled on AC. The work described above was done I.A.W. the manufacturer's service manual & current FAA regulations and was found to be in an airworthy condition with respect to the work described above. end
A/C Tach 603.4						
Hobbs Time 437.4						
PAGE TOTALS						

CARRY FORWARD to Top of Next Page

Tommy [Signature]  
ATP 3517538



MAKE: Diamond  
MODEL: DA42NG  
S/N: 42.N334  
REG. NO: N649DA  
WORK ORDER: 0300



**Premier Aircraft Service, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 4/2/2021  
A/C TSN: 619.4  
HOBBS: 461.9

**Airframe Entries**

- Performed 100 Hour Inspection using DA42NG AMM as a guide
- Inspected ELT system IAW 14 CFR 91.207(d)
- Replaced fuel filters
- Complied with 100 Hour lubrication
- Replaced RH nose baggage rear microswitch 159-4629
- Replaced MLG tires 156E66-4 and tubes GL-1520B
- Replaced LH brake linings 066-10500
- Replaced pilot overhead vent AV467406-1
- Replaced flood light inverter APVL328-4-1-L-5QF

DATE: 4/2/2021

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0300

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MAKE: Diamond  
MODEL: DA42NG  
S/N: 42.N334  
REG. NO: N649DA  
WORK ORDER: 0328



**Premier Aircraft Service, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 5/10/2021  
A/C TSN: 686.4  
HOBBS: 556.8

**Airframe Entries**

- Replaced main tires 156E61-3 and tubes GL-1520B

DATE: 5/10/2021

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0328

Printed by EBis 3 (datcomedia.com)

MAKE: Diamond  
MODEL: DA42NG  
S/N: 42.N334  
REG. NO: N649DA  
WORK ORDER: 0346



**Premier Aircraft Service, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 6/7/2021  
A/C TSN: 715.8  
HOBBS: 598.5

**Airframe Entries**

- Performed 100 Hour Inspection using DA42 AMM as a guide
- Inspected ELT system IAW 14 CFR 91.207(d)
- Replaced fuel filters
- Complied with 100 Hour lubrication
- Replaced rudder T-yoke left outboard cable eye bushings

I certify this aircraft has been inspected IAW a 100 Hour Inspection and was determined to be in airworthy condition.

DATE: 6/7/2021

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0346

Printed by EBis 3 (datcomedia.com)

MAKE: Diamond  
MODEL: DA42NG  
S/N: 42.N334  
REG. NO: N649DA  
WORK ORDER: 0306



**Premier Aircraft Service, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 6/7/2021  
A/C TSN: 715.8  
FLIGHTTIME: 715.8

**Airframe Entries**

- MSB42NG-077 (Removal of pilot gust lock mounts from rudder pedals) already incorporated at production
- MSB42NG-079 Inspection terminated via RSB42NG-081 - replaced T-yoke axle with improved design
- MSB42NG-082 Modified rudder gap covers
- Replaced rudder gap tapes
- Replaced LH EECU with new S/N 3980
- Replaced RH EECU with new S/N 3979

DATE: 6/7/2021

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0306

Printed by EBis 3 (datcomedia.com)



# Section 1: Airframe Log

DATE / /	AIR TIME				LANDINGS / CYCLES		DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)
	DAILY TOTAL		TOTAL		DAILY TOTAL	TOTAL	
	HRS	MIN	HOURS	MIN			
CARRIED FORWARD							

**CAM AVIONICS LLC CRS#TRJR588X**  
**12925 Wildcat Way N. Burleson, TX 76028**

**AIRFRAME: N649DA**      **MODEL: Diamon DA42NG**      **S/N: 42.N334**  
**WO: CA2021-072**

**DESCRIPTION OF WORK PERFORMED:**      **JPI H: 769.20**      **Hobbs: 674.70**  
 Removed intermittent AP Disconnect switches due to failing "PFT" cycle P/N: MB-2061. Replaced both disconnect switches with Garmin assembly switches P/N: 011-04895-00. Test cycles completed, no further discrepancies noted. Referenced work performed IAW Manuals: 190-00303-04 Rev. G, 190-00907-00 Rev. E, and Diamond service document 7.02.15 Rev. 4.

July 16, 2021

**DATE** \_\_\_\_\_ **SIGNATURE** \_\_\_\_\_ **CRS#TRJR588X**

MAKE: Diamond  
 MODEL: DA42NG  
 S/N: 42.N334  
 REG. NO: N649DA  
 WORK ORDER: 0392



**Premier Aircraft Service, Inc.**  
 3804 Falcon Way W  
 Hangar 18S  
 Fort Worth, TX 76106  
 Phone: 562.881.5345

DATE: 7/29/2021  
 A/C TSN: 794.9  
 HOBBS: 708.1

**Airframe Entries**

- Performed 100 Hour Inspection using DA42NG AMM as a guide
- Inspected ELT system IAW 14 CFR 91.207(d)
- Replaced fuel filters
- Complied with 100 Hour lubrication
- Replaced RH fire sensor
- Replaced induction air filters
- Replaced all brake linings

I certify this aircraft has been inspected IAW a 100 Hour Inspection and was determined to be in airworthy condition.

DATE: 7/29/2021

SIGNED:   
 Chad Cox, License: AP3782800 IA

Work Order: 0392

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MAKE: Diamond  
 MODEL: DA42NG  
 S/N: 42.N334  
 REG. NO: N649DA  
 WORK ORDER: 0418



**Premier Aircraft Service, Inc.**  
 3804 Falcon Way W  
 Hangar 18S  
 Fort Worth, TX 76106  
 Phone: 562.881.5345

DATE: 9/15/2021  
 A/C TSN: 892.2  
 HOBBS: 847.8

**Airframe Entries**

- Performed 100 Hour Inspection using DA42NG AMM as a guide
- Inspected ELT system IAW 14 CFR 91.207(d)
- Replaced fuel filters
- Complied with 100 Hour lubrication
- Replaced LH tire and tube

I certify this aircraft has been inspected IAW a 100 Hour Inspection and was determined to be in airworthy condition.

DATE: 9/15/2021

SIGNED:   
 Chad Cox, License: AP3782800 IA

Work Order: 0418

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PAGE TOTALS							
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Make: Diamond  
Model: DA42NG  
S/N: 42.N334  
REG NO: N649DA



Diamond Fleet & Aviation services LLC  
5070 S. Collins suite 205,  
Arlington, TX 76018  
Phone: 817-575-7828

Date: 12/3/2021  
Hobbs: 998.7  
A/C TSN: 992.0

NAME/  
SIGNATURE

LICENCE:  
AME or  
AMO/ACA

Airframe entry:

- performed 100 hour inspection using DA42NG AMM as a guide
- complied with 100 hour lubrication
- Inspected ELT system IAW 14 CFR 91.207
- Replaced fuel filters
- Replaced backup ECU batteries P/N: 2 under seat NP7-12 and 2 at the tail DAI-9024-30-03
- Needs Induction Air Filter Replacement at 994.9hrs
- Needs Bonding system and static discharge ing system inspection at 1000hrs
- Needs Brake fluid change
- Needs hydraulic filter change at 1000hrs
- All AD's complied with current BI-week

I certify this aircraft has been inspected IAW a 100 hour inspection and was determined to be in an airworthy condition.

Date: 12/3/2021

SIGNED: *Austin Paden*  
Austin Paden, A&P:4494928

MAKE: Diamond  
MODEL: DA42NG  
S/N: 42.N334  
REG. NO: N649DA  
WORK ORDER: 0491



Premier Aircraft Service, Inc.

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 12/8/2021  
A/C TSN: 992.1  
HOBBS: 1000

Airframe Entries

- Performed Annual Inspection using DA42NG AMM as a guide
- ADs current to biweekly revision 2021-25
- Serviced wheel bearings
- Serviced MLG struts
- Changed brake fluid
- Removed and reinstalled rudder for inspection
- Replaced induction air filters
- Replaced inboard flap bell crank bonding straps
- Replaced TKS level sensor
- Performed 4yr/1000hr bonding and static discharging tests
- Performed 1000hr hydraulic reservoir filter inspection
- Replaced hydraulic pump filter

I certify this aircraft has been inspected IAW an Annual Inspection and was determined to be in airworthy condition.

DATE: 12/8/2021

SIGNED:

*David Seastead*

David Seastead, License: AP3492477 IA

Work Order: 0491

Printed by EBis 3 (datcomedia.com)

wo: N649DA 2022.02.28 Scheduled



Diamond Fleet & Aviation Service - 5070 S. Collins S. Suite 205 - Arlington, TX 76018 - 9012474808

N649DA  
HOBBS: 1126.8

DIAMOND AIRCRAFT IND GMBH, DA 42 NG, S/N: 42.N334  
TACH: 1083.4

March 04, 2022

1. **100 Hour Progressive Inspection - Airframe** - Performed 100hr Inspection using DA42NG AMM as a guide. Inspected ELT system IAW 14 CFR 91.207(d). Removed fuel filter P/N: WK724\_3 and replaced with new-serviceable fuel filter P/N: WK724\_3. Serviced main landing gear struts and nose landing gear strut to the proper pressure IAW DA42NG AMM. Complied with 100 Hour lubrication.

With respect to the work performed, this aircraft has been found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Diamond Fleet & Aviation Service under work order: N649DA 2022.02.28 Scheduled.

*complied with all current BI-week ADS. AP*

Austin Paden A/P 4494928

*Austin Paden*



# Section 1: Airframe Log

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

DETAILS OF TASK  
(INSPECTION, REPAIRS & REPLACEMENT)

wo: N649DA 2022.04.06 Scheduled Airframe - page 1 of 1

  
Diamond Fleet & Aviation Service - 5070 S. Collins S. Suite 205 - Arlington, TX 76018 - 9012474808


**N649DA**      **DIAMOND AIRCRAFT IND GMBH, DA 42 NG, S/N: 42.N334**      **April 07, 2022**  
**HOBBS: 1198.4**      **TACH: 1130.0**

1. **Rudder Gap Tape Delaminated** – Replaced L/H & R/H Rudder Gap Tape IAW DAI-DA42-AMM Current Revision

With respect to the work performed, this aircraft has been found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Diamond Fleet & Aviation Service under work order: N649DA 2022.04.06 Scheduled.

Michael Smith A/P 3906663 

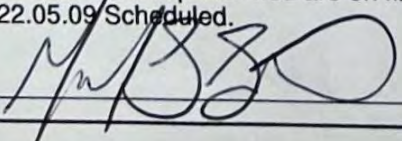
wo: N649DA 2022.05.09 Scheduled Airframe - page 1 of 1

  
Diamond Fleet & Aviation Service - 5070 S. Collins S. Suite 205 - Arlington, TX 76018 - 9012474808

**N649DA**      **DIAMOND AIRCRAFT IND GMBH, DA 42 NG, S/N: 42.N334**      **June 01, 2022**  
**HOBBS: 1238.0**      **TACH: 1160.6**

- AC does not blow cold air** – Recovered 100g of Refrigerant from RACC. Performed vacuum test - results passed. Serviced RACC with 500g of R134a refrigerant IAW DAI-DA42-AMM Current Revision. Ops Check OK.
- Auxiliary Alternator Aft Hardware not installed** – Installed replacement hardware IAW RSB 42NG-063 R1 Dated 3 Apr 2017.
- 24 Month Landing Gear Hydraulic Fluid Replacement** – Drained and serviced landing gear strut dampers with MIL-PRF-5606H & Nitrogen IAW DA42NG AMM Current Revision. Next due 31May2024
- 24 Month Emergency Battery Replacement** – Removed battery pack (pn/ D60-2560-91-00 s/n 20-044-00038) and installed new-serviceable battery pack case (p/n D60-2560-92-00 s/n RC2202741) and 12ea new-serviceable CR123A batteries IAW DA42NG AMM current revision. Ops & Voltage Check OK. Next replacement due 31 May 2024.
- 200 Hour/12 Month Airframe Inspection** – Inspection Completed using DA42NG AMM as a guide. Next due @ 1360.6 ACTT or 31 May 2023.
- 200 Hour Air Intake Filter Replacement (L/H & R/H)** – Removed 2ea Intake filters (p/n RU-1620) and replaced with 2ea new-serviceable filters (p/n same) IAW DA42NG-AMM current revision. Next due @ 1360.6 ACTT.
- 100 Hour Fuel Filter Replacement (2ea)** – Removed 2ea airframe fuel filters (p/n WK723-4) and installed new-serviceable filters (p/n same) IAW DA42NG AMM current revision. Next due @ 1260.6 ACTT.
- 100 Hour Inspection** – Inspection completed using DA42NG AMM and FAR 43 Appendix D as a guide. No major deficiencies noted at this time. All ADs complied with through current bi-week. Next inspection due @ 1260.6 ACTT
- 12 Month ELT Operational Check (14 CFR Part 91.207)** – Inspection completed IAW FAR 91.207 - battery expires June 2026. Next inspection due @ 1260.6 or 31May2023.
- 6 Year Coolant Silicate Pouch Replacement** – Removed 2ea silicate pouches (p/n D44-9075-21-01) and installed new-serviceable silicate pouches (p/n same) IAW DA42NG AMM Current revision. Next due 31May2028.
- L/H 600 Hour Engine Coolant Replacment** – Drained and serviced Left Engine Coolant with 50/50 G48/Distilled Water mixture IAW DA42NG AMM current revision. Next due @ 1760.6 ACTT
- R/H 600 Hour Engine Coolant Replacement** – Drained and serviced Right Engine Coolant with 50/50 G48/Distilled Water mixture IAW DA42NG AMM current revision. Next due @ 1760.6 ACTT

With respect to the work performed, this aircraft has been found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Diamond Fleet & Aviation Service under work order: N649DA 2022.05.09 Scheduled.

Michael Smith A/P 3906663 





Diamond Fleet & Aviation Services - 5070 S. Collins S. Suite 205 - Arlington, TX 76018 - 9012474808

**N649DA**  
HOBBS: 1247.6

**DIAMOND AIRCRAFT IND GMBH, DA 42 NG, S/N: 42.N334**  
TACH: 1166.9

**June 10, 2022**

NCE:  
E or  
/ACA

- R/H MLG Tire Low/Flat** - Rmvd Wheel & tire/tube assembly (p/n 40-414A; p/n 301-249-006 s/n 11650406; p/n 097-500-0) and installed removed-serviceable wheel (p/n 40-414A), new-serviceable tire (p/n 301-249-006 s/n 20200260), new-serviceable tube (097-500-0), and serviced tire to 68 psi IAW DA42NG AMM & Parker Cleveland CMM current revisions. Leak Check OK.

With respect to the work performed, this aircraft has been found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Diamond Fleet & Aviation Services under work order: N649DA 2022.0609 Unscheduled

Michael Smith A/P 3906663



Diamond Fleet & Aviation Services - 5070 S. Collins S. Suite 205 - Arlington, TX 76018 - 9012474808

**N649DA**  
HOBBS: 1279.6

**DIAMOND AIRCRAFT IND GMBH, DA 42 NG, S/N: 42.N334**  
TACH: 1188.5

**July 08, 2022**

- L/H MLG Tire Worn** - Removed MLG wheel (p/n 40-75A) tire (p/n 156E66-4 s/n 03450251) and tube (097-500) and installed new-serviceable wheel (p/n same) new-serviceable tire (p/n same s/n 20290690) and new-serviceable tube (p/n same) IAW DA42NG AMM & Parker Cleveland ICA current revision.
- Incorrect R/H MLG Wheel Installed** - Removed MLG wheel (p/n 40-410A) tire (p/n 156E66-4 s/n 20200260) and tube (097-500) and installed removed-serviceable wheel (p/n 40-75A) new-serviceable tire (p/n same s/n 13550930) and new-serviceable tube (p/n same) IAW DA42NG AMM & Parker Cleveland ICA current revision.

With respect to the work performed, this aircraft has been found to be in an airworthy condition and is approved for return to service. Details of work performed are on file with Diamond Fleet & Aviation Services under work order: N649DA 2022.07.08 Scheduled.

Austin Paden A/P 4494928

MAKE: Diamond  
MODEL: DA42NG  
S/N: 42.N334  
REG. NO: N649DA  
WORK ORDER: 0613



**Premier Aircraft Service, Inc.**

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 7/19/2022  
A/C TSN: 1194.2  
HOBBS: 1287.8

**Airframe Entries**

- Replaced wing fuel tank interconnect hoses and vent hoses
- Replaced all three door sill plates
- Replaced NLG tire and tube
- Replaced RH inboard fuel tank
- Replaced LH exhaust pipe shock mount

DATE: 7/19/2022

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0613

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