

THE **adlog**<sup>TM</sup> AIRCRAFT  
MAINTENANCE  
RECORDKEEPING  
SYSTEM

**AIRFRAME  
MAINTENANCE  
RECORDS**

# AIRFRAME MAINTENANCE RECORDS

Log No. 2

Aircraft Registration No. N 101DA

Aircraft Mfg. DIAMOND Model DA-42 Serial No. 42-125

Engine Mfg. THIELERT GmbH Model TAE 125-01 Serial No. 02-01-0679

Engine Mfg. THIELERT GmbH Model TAE 125-01 Serial No. 02-01-0680

Propeller Mfg. MT-PROPELLER Model MTV-6-A-C-F Serial No. 06117

Hub Design No. \_\_\_\_\_ Hub Serial No. \_\_\_\_\_

Blade Design No. \_\_\_\_\_ Blade Serial No's. \_\_\_\_\_

Propeller Mfg. MT-PROPELLER Model MTV-6-A-C-F Serial No. 06119

Hub Design No. \_\_\_\_\_ Hub Serial No. \_\_\_\_\_

Blade Design No. \_\_\_\_\_ Blade Serial No's. \_\_\_\_\_

(All applicable information must be filled in)



**AEROTECH PUBLICATIONS INC.**

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(631) 765-9375  
1-800-235-6444  
FAX: (631) 765-9359



DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
<b>TOTAL</b> brought forward from previous page			

Channel Islands Aviation  
305 Durley Avenue  
Camarillo, CA 93010  
FAA Repair Station DDER146D

Reg: # N101DA Model: Diamond DA-42 Ser. # 42-125  
Date: 10/03/11 Hobbs: 300.8  
Replaced aircraft battery with new Concorde P/N RG24-15M S/N 40432771.

The applicable work performed IAW manufacture specifications.  
All pertinent data on file under WO 16506.  
I certify that the above work was accomplished, inspected, found to be airworthy, and is approved for return to service.



Andrew Rouleau  
F.A.A. Repair Station #DDER146D  
Authorized Inspector

Channel Islands Aviation  
305 Durley Avenue  
Camarillo, CA 93010  
FAA Repair Station DDER146D

Reg: # N101DA Model: Diamond DA-42 Ser. # 42-125  
Date: 02/05/12 AFTT: 310.2

Replaced the right main landing gear tire with p/n 072-449-0 s/n 9182W00196 IAW Diamond DA-42 Maintenance Manual ch. 32-40-00 and serviced IAW Ch. 12-10-00

The applicable work performed IAW manufacture specifications.  
All pertinent data on file under WO 16734.  
I certify that the above work was accomplished, inspected, found to be airworthy, and is approved for return to service.



Andrew Rouleau  
F.A.A. Repair Station #DDER146D  
Authorized Inspector

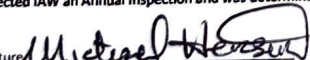


MXdiamond  
2901-F E. Spring St., Long Beach, CA  
562-366-4806  
562-881-5345

Date: 5/10/12 N101DA S/N: 42.125  
Tach: 318.8

1. Performed Annual Inspection using DA42 AMM as a guide.
2. R&R ELT battery and inspected IAW FAR 91.207(d).
3. R&R emergency battery and inspected IAW DA42 AMM 24-30-00.
4. R&R ECU backup batteries IAW DA42 AMM 24-30-00.
5. R&R Alt backup batteries IAW DA42 AMM 24-30-00.
6. R&R Fuel filters IAW DA42 AMM 28-20-00.
7. R&R Air Filters IAW DA42 AMM 71-60-00.
8. R&R LH tire and tube IAW DA42 AMM 32-40-00.
9. R&R LH brake pads IAW DA42 AMM 32-40-00.
10. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
11. AD 2011-10-13 (Rear door bracket) P/C/N IAW MSB42-083.
12. AD 2011-11-07 (MLG Links) must be replaced within 100Hrs of effective date.
13. ADs current to biweekly revision 2012-06.
14. Performed ground run operational check with no discrepancies noted at this time.

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

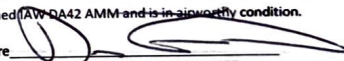
Authorized Signature:   
Michael Herbert AP3153561 IA



MXdiamond  
2901-F E. Spring St., Long Beach, CA  
562-366-4806  
562-881-5345

Date: 7/21/12 N101DA S/N: 42.125  
Tach: 324.6

1. R&R RH aux tank sump P/N CAV-180 IAW DA42 AMM 28-10-00.
- I certify the above work was performed IAW DA42 AMM and is in airworthy condition.

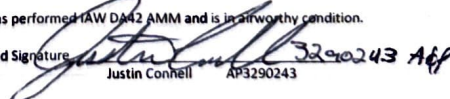
Authorized Signature:   
David Seastead AP3492477



MXdiamond  
2901-F E. Spring St., Long Beach, CA  
562-366-4806  
562-881-5345


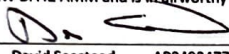
Date: 8/3/12 N101DA S/N: 42.125  
Tach: 325.3

1. Resealed RH fuel filter assembly IAW DA42 AMM 28-20-00.
- I certify the above work was performed IAW DA42 AMM and is in airworthy condition.


Authorized Signature:   
Justin Connell AP3290243

SUB-TOTAL this page

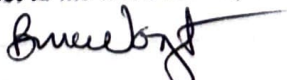
TOTAL-Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
<b>TOTAL</b> brought forward from previous page			
 <b>MXdiamond</b> 2901-F E. Spring St., Long Beach, CA 562-366-4806 562-881-5345  Date: 8/13/12 N101DA S/N: 42.125 Tech: 328.2			
1. AD 2011-11-07 (MLG Links) replaced IAW MSB42-088 as terminating action. 2. Performed gear swing and emergency extension operational check.			
I certify the above work was performed IAW DA42 AMM and is in airworthy condition.			
Authorized Signature  David Seastead AP3492477			

**Maintenance Log Entry  
Executive International DA-42 s/n 42.125**

DATE	REMARKS
12-6-12	<p><b>Diamond Aircraft DA-42 s/n 42.125 Reg.# N101DA Acft TT 342.1 Tach</b></p> <p>Complied with AD 2012-17-07, amendment 39-17170 through compliance with inspection of the adhesive joint between the center wing spars and the upper center wing skin in accordance with Diamond Aircraft Work Instruction <del>WI-MSB-42-092 rev 0</del> dated 5-20-11 as specified in Diamond Aircraft Service Bulletin <del>MSB 42-092 dated 5-20-11</del>, and found only voids that do not exceed the inspection criteria, allowing continued operation with out restriction. The inspection results were reported to Diamond Aircraft in accordance with section (f)(2) of the AD. This constitutes terminating action for AD 2012-17-07 for this aircraft.</p> <p>I certify that the above described work was accomplished in accordance with current FAA regulations and that the aircraft is airworthy with respect to the work accomplished and systems affected.</p> <p>Bruce Vogt AP510542529 </p>

**Maintenance Log Entry  
Executive International DA-42 s/n 42.125**

DATE	REMARKS
3-14-13	<p><b>Diamond Aircraft DA-42 s/n 42.125 Reg.# N101DA Acft TT 358.7 hours</b></p> <p>Removed worn right main landing gear tire p/n off 072-449-0, s/n off 9182W00196 and installed a new condition tire p/n on same, s/n on 2055S00282 in accordance with Diamond DA42 AMM 32-40-00. Tire was serviced in accordance with AMM 12-10-00.</p> <p>I certify that the above described work was accomplished in accordance with current FAA regulations and that the aircraft is airworthy with respect to the work accomplished and systems affected.</p> <p>Bruce Vogt AP510542529 </p>

**TOTAL**-Carry forward to next page



DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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Date: 6/1/13 N101DA S/N: 42.125  
Total Time: 369.9

MXdiamond  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.989.9495  
Cell: 562.881.5345

1. Performed Annual Inspection using DA42 AMM as a guide.
2. Inspected ELT IAW FAR 91.207(d). Battery expires 11/2015.
3. Inspected emergency battery IAW DA42 AMM 24-30-00. Expires 05/2014.
4. R&R ECU backup batteries IAW DA42 AMM 24-30-00.
5. R&R Alt backup batteries IAW DA42 AMM 24-30-00.
6. R&R Fuel filters IAW DA42 AMM 28-20-00.
7. Replaced RH brake linings P/N 066-10500 IAW DA42 AMM 32-40-00.
8. Replaced RH squat switch lever P/N JE-5 IAW DA42 AMM 32-60-00.
9. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
10. Performed 4yr/1000hr bonding and static discharging checks IAW DA42 AMM 51-80-00.
11. Performed 5yr silicone coolant hose replacement IAW DA42 AMM 75-00-00.  
P/Ns: SHL11, SHL16, SHL19, SHL25, SHL30, E90-30, E45-30
12. MSB42-021 (exhaust clearance) inspected IAW WI-MSB42-021.
13. MSB42-028 (engine harness) repaired IAW WI-MSB42-028
14. MSB42-035 (coolant cap) tested IAW WI-MSB42-035.
15. MSB42-072 (fire sensor) PCW IAW WI-MSB42-072.
16. MSB42-076 (firewall holes) inspected IAW WI-MSB42-076
17. MSB 12-077 (emergency exit) inspected IAW WI-MSB42-077.
18. MSB42-091 (MLG bearing) inspected IAW WI-MSB42-091.
19. AD 2013-07-01 (MLG dampers) repaired IAW WI-MSB42-095.
20. ADs current to biweekly revision 2013-10.
21. Performed ground run operational and leak check.

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

Authorized Signature

Michael Herbert AP3153561 IA



Date: 6/1/13 N101DA S/N: 42.125  
Total Time: 369.9

MXdiamond  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.989.9495  
Cell: 562.881.5345

1. Performed 24 month coolant change on both engines with Zerex G05 IAW DA42 AMM 75-00-00.
2. Performed 12 month GDL69A inspection IAW Garmin ICA 190-00355-00 Rev. E 2.5.1
3. Performed 12 month TAS600 inspection IAW 14 CFR 43 Appendix D (c) (7).
4. Performed 12 month main battery service IAW Dwg. No. 1549 Rev M.

I certify the above work was performed IAW DA42 AMM and is in airworthy condition.

Authorized Signature

David Seastead AP3492477



Date: 9/19/13 N101DA S/N: 42.125  
Total Time: 373.2 Hobbs: N/A

Angel City Flyers  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. MSB42-025 (Fuel Probes) C/W IAW WI-MSB42-025.
2. Performed ground run operational and leak check.

I certify the above work was performed IAW DA42 AMM and is in airworthy condition.

Authorized Signature

David Seastead AP3492477 IA



Date: 5/9/14 N101DA S/N: 42.125  
Total Time: 375.6 Hobbs: N/A

Angel City Flyers  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. Performed Annual Inspection using DA42 AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 11/2015.
3. Replaced RCPI battery P/N 28L IAW DA42 AMM 24-32-00.
4. Replaced emergency battery and inspected system IAW DA42 AMM 24-30-00. Expires 05/2016.
5. Replaced ECU backup batteries IAW DA42 AMM 24-30-00.
6. Replaced Alternator excitation batteries IAW DA42 AMM 24-30-00.
7. Replaced fuel filters IAW DA42 AMM 28-20-00.
8. Bled brakes IAW DA42 AMM 32-40-00.
9. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
10. AD 2013-19-11 (NLG Actuator) N/A by P/N.
11. ADs current to biweekly revision 2014-08.
12. Performed ground run operational and leak check.

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

Authorized Signature

David Seastead AP3492477 IA



Date: 3/18/2015 N101DA S/N: 42.125  
Total Time: 464.2 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

1. Performed Annual Inspection using DA42 AMM as a guide.
2. Replaced ELT battery and inspected system IAW FAR 91.207(d). Battery expires 05/2021.
3. Inspected emergency battery system IAW DA42 AMM 24-30-00. Expires 05/2016.
4. Replaced ECU backup batteries IAW DA42 AMM 24-30-00.
5. Replaced Alternator excitation batteries IAW DA42 AMM 24-30-00.
6. Replaced fuel filters IAW DA42 AMM 28-20-00.
7. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
8. Replaced LH brake linings IAW DA42 AMM 32-40-00.
9. Installed Orion 600 LED wingtip lights P/Ns 01-0771733-11/12 IAW AC43.13-2B Chapter 4. See W&B Revision this date.
10. ADs current to biweekly revision 2015-05.
11. Performed ground run operational and leak check.

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

Authorized Signature   
David Seastead AP3492477 IA



Date: 3/25/2015 N101DA S/N: 42.125  
Total Time: 464.2 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. Replaced fire extinguisher IAW DA42 26-00-00.
2. Replaced canopy latch P/N D41-5211-60-00\_2 IAW DA42 52-10-00 and instruction REV 0.
3. Replaced Attitude Indicator with overhauled P/N 4300-206 S/N B06-10245 IAW DA42 AMM 34-20-00.

Authorized Signature   
Abel Navarrete AP3773318



Date: 7/27/2015 N101DA S/N: 42.125  
Total Time: 0483.4 Tach: 0483.4 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.366.4806  
Cell: 562.881.5345

1. Replaced LH wing walks P/N D60-1127-10-51\_1 and RH P/N D60-1127-10-52\_1 IAW DA42 AMM 11-20-00.
2. Replaced autopilot P/N 065-00176-7904 IAW DA42 AMM 22-10-00.

Authorized Signature   
Abel Navarrete AP3773318



Date: 4/11/16 N101DA S/N: 42.125  
Total Time: 492.4 Hobbs: N/A

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

1. Performed Annual Inspection using DA42 AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 05/2021.
3. Replaced emergency battery and inspected system IAW DA42 AMM 24-30-00. Expires 04/2018.
4. Replaced ECU backup batteries IAW DA42 AMM 24-30-00.
5. Replaced Alternator excitation batteries IAW DA42 AMM 24-30-00.
6. Replaced fuel filters IAW DA42 AMM 28-20-00.
7. Replaced RH tube IAW DA42 AMM 32-40-00.
8. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
9. Complied with 4 year / 1000 hour bonding and static discharging tests IAW DA42 AMM 51-80-00.
10. MSB42-112 (turbo clamps) installed new clamp assemblies P/N 05-7241-K021602 IAW WI-MSB42-112.
11. ADs current to biweekly revision 2016-07.
12. Performed ground run operational and leak check.

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

Authorized Signature   
David Seastead AP3492477 IA

MAKE: Diamond  
MODEL: DA42  
S/N 42.125  
REG NO: N101DA  
WORK ORDER: 0105



MX Aero Global LLC  
2901 East Spring St.  
Long Beach, Ca 90806  
Phone: 562-912-4263

DATE: 6/3/2019  
A/C TSN: 510.5  
TACH: 510.5

**Airframe Entries**

Complied with Annual inspection using Diamond DA42 AMM chapter 5 and FAR part 43 appendix D as a guide. All applicable Airworthiness Directives have been researched through bi-weekly issue 2019-08. Complied with ELT annual inspection PER FAR 91.207 (d) and ICA ARTEX MM ME406 570-1600 CH 25-62. ELT battery due AUG 2024. Visual and operational test with no defects noted at this time. ... Bled brakes as required, post operational check good. ... Removed and replaced L/H and R/H aux fuel tank drain sumps with new ones P/N DA4-9028-17-01. Using DIAMOND DA42 AMM CH.28 As a guide. Operational leak check good. ... Removed and replaced rudder trim knob set screw with new one. ... Torqued hydraulic pump forward fitting. Leak now check good. ... Complied with AD 2009-24-10 using Thielert SB No. TM TAE 124-0017 R2. ... Complied with AD 2010-06-12 R1 by replacement of RPCV P/N 02-7320-04100R3. ... Complied with AD 2010-11-09 R1 paragraph (G) Section (1) using Centurion 1.7

I certify that this Aircraft has been inspected in accordance with Annual inspection was determined to be in airworthy condition.

DATE: 6/3/2019

SIGNED:

Work Order: 0105

Ysmael Galera, License: AXP 3587770 IA

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Date: 4/27/17 N101DA S/N: 42.125  
Total Time: 499.5

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

1. Performed Annual Inspection using DA42 AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 05/2021.
3. Inspected emergency battery system IAW DA42 AMM 24-30-00. Expires 04/2018.
4. Replaced ECU backup batteries IAW DA42 AMM 24-30-00.
5. Replaced Alternator excitation batteries IAW DA42 AMM 24-30-00.
6. Replaced fuel filters IAW DA42 AMM 28-20-00.
7. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
8. AD 2017-01-12 (Exhaust Pipes) N/A by engine model.
9. ADs current to biweekly revision 2017-08.
10. Performed ground run operational and leak check.

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

Authorized Signature David Seastead  
David Seastead AP3492477 IA



Date: 5/1/18 N101DA S/N: 42.125  
Total Time: 508.7

MX Aero Global LLC  
2901A E. Spring St. Long Beach, CA 90806  
Main: 562.912.4263  
Cell: 562.881.5345

1. Performed Annual Inspection using DA42 AMM as a guide.
2. Inspected ELT system IAW FAR 91.207(d). Battery expires 05/2021.
3. Replaced emergency battery IAW DA42 AMM 24-30-00. Expires 05/2020.
4. Replaced ECU backup batteries IAW DA42 AMM 24-30-00.
5. Replaced Alternator excitation batteries IAW DA42 AMM 24-30-00.
6. Replaced fuel filters IAW DA42 AMM 28-20-00.
7. Complied with 100 hour lubrication IAW DA42 AMM 12-10-00.
8. AD 2017-11-08 exhaust N/A by engine model.
9. AD 2017-15-09 exhaust N/A by engine model.
10. AD 2017-18-10 (flap bell crank) complied with as a terminating action by installing new crank P/N D60-2757-11-00\_01 and bushings.
11. ADs current to biweekly revision 2018-09.
12. Performed ground run operational and leak check.

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

Authorized Signature Stanley Jijawi  
Stanley Jijawi AP3704706 IA

STAPLES

**CAMARILLO AIRCRAFT SERVICE**  
375-B DURLEY AVE.  
CAMARILLO, CA 93010

N101DA

Feb 1, 2016  
Hobbs: 491.5

Replaced both main tires and tubes with Goodyear 15X6 Gply Flight Custom III + Michelin 15X6 tubes. Balanced wheels, repacked wheel bearings, serviced to 65 psi  
R/N JEP 3521570AP

Etiquette de format 88,9 mm label size 3 1/2" x 5"

SUB-TOTAL this page  
TOTAL-Carry forward to next page

DAI

MAKE: Diamond  
MODEL: DA42  
S/N: 42.125  
REG. NO: N101DA  
WORK ORDER: 3705



**Aero City Maintenance**

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

DATE: 7/16/2020  
A/C TSN: 512.1 IK  
TACH: 512.1

**Airframe Entries**

Complied with Annual inspection using Diamond DA42 AMM chapter 5 and FAR part 43 appendix D as a guide. All applicable Airworthiness Directives have been researched through bi-weekly issue 2020-13. Complied with ELT annual inspection PER FAR 91.207 (d) and ICA ARTEX MM ME406 570-1600 CH 25-62. ELT battery due 05/2021 Visual and operational test with no defects noted at this time. Previously complied with AD 2009-24-10 using Thielert SB No. TM TAE 125-0017 R3 at TACH 510.5 Repetitive inspection due every 100 hours per (e) line 3. Next DUE: 612.1. Removed and replaced Emergency Battery pack with new P/N: P/N: D60-2560-91-00. Using DIAMOND DA42NG AMM CH.24 As a guide. Removed and replaced ECU Backup batteries with new P/N: LC-R127R2P (x4). Using DIAMOND DA42 AMM CH. 24 As a guide. Replaced both right and left fuel filter elements using Diamond DA42 AMM chapter 28 as a guide. Operatin/leak check REQUIRED. Performed 1000hr Bonding System and Static Discharge test using Diamond D42 AMM Ch. 51-80 as a guide. No discrepancies noted. Installed new engine shock mounts (FWD) P.N.: 05-7121-K009601 and (REAR) P.N.: 05-7121-K010001 and applicable hardware on LH engine. Installed new engine shock mounts (FWD) P.N.: 05-7121-K009601 and (REAR) P.N.: 05-7121-K010001 and applicable hardware on RH engine, referencing Technify Motors 1.7 RM SEC: 1.0 and 1.2. Operational check good. Removed and installed new LH MLG lower damper joint D64-3217-23-02 using Diamond DA42 AMM Ch. 32-10 as a guide. Ops. check good. Installed new trailing arm bushings P.N.: EGF25215-E40-B (x2) & P.N.: D60-3217-21-35 (x1) on LH MLG trailing arm pivot point, referencing Diamond Aircraft DA42 AMM CH: 32-10. Ops check good. Removed and installed new LH MLG lower damper joint D64-3217-23-00 using Diamond DA42 AMM Ch. 32-10 as a guide. Ops. check good. Removed and replaced RH MLG trailing arm pivot bushing using Diamond DA42 AMM CH. 32-10 as a guide. \*\*New nut wont come in until 06/23. Old nut was installed and was in serviceable condition, and Torqued to spec. Removed and replaced the nut-plates from the LH nose baggage rear cover panel, using Diamond Da42 AMM Ch.51 as a guide. Removed and replaced the alternator exciter batteries P/N: LC-R121R3P using Diamond DA42NG CH.24 as a guide. Removed and installed new main battery P/N: RG24-15M SN: 41087356 using Diamond AMM CH. 24-30 as a guide. Ops. check good.

I certify that this Aircraft has been inspected in accordance with Annual inspection checklist and was determined to be in airworthy condition.

DATE: 7/16/2020

SIGNED:   
Ysmael Galera, License: A&P 3587770 IA

Work Order: 3705

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**GERDES AVIATION SERVICES**  
FAA Approved Repair Station G3RR399J

IFR CERT. TESTS - The Altimeter / Static and Transponder Systems have been tested and inspected per 14 CFR 91.411 & 91.413. The systems were found to comply with 14 CFR 43, Appendix E & F to an altitude of 20,000 feet.  
N Number 101DA Tach/Hebbs 0512.1 ACTT 0512.1  
Date 07-14-2020 Authorized Signature:   
P.O. Box 2872 Fullerton CA 92837 Office (714) 525-7545

SUB-TOTAL this page  
 TOTAL-Carry forward to next page



DATE



**LEADING EDGE  
AVIONICS**

**Log Book Entry**

CRS# 137R236D  
19300 IKE JONES RD.  
SANTA ANA, California 92707  
United States  
Telephone: 714-955-6151

Work Order No: 4750

July 20, 2020

Registration #: N101DA Manufacturer: Diamond DA - 42 Twin Star Serial Number: 4225 AC Time: 512.1

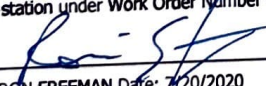
Part Number	Serial Number	Description		
011-00779-10 C63-1/A	Removed 89102084 41417	GTX 33 REMOTE MODE S XPDR COM ANTENNA	New Weight:	1,050.60
			New CG/Arm:	95.65
011-03303-40 CI-2580-200	Installed 3EH421658 617699	GTX 345R GARMIN REMOTE ADS-B TRANSPONDER/WAAS (G1000) CI 2580-200 COMDAT VHF/GPS WAAS	New Moment:	100,489.42

- Removed (1) existing Garmin GTX 33 and replace with (1) Garmin GTX 345R in accordance with (IAW) Garmin AML/STC SA01714WI Installation Manual #190-00734-10 REV. 14, Dated: DEC 2019., and AC 43.13-2B Chpt 3. GTX 345R is listed in Approved Model List STC SA01714WIGTX 345R
- GTX 345 is powered by L/H Main Bus and protected with (KLIXON 7277-2-5) 5 AMP circuit breaker labeled "XPDR" GTX 345R GPS Keep- A- Alive Installed as recommended with 3 Amp Fuse labeled "GPS Alive" in line with unswitchable Battery Bus. Fuse Located near main battery compartment, to preserve internal SBAS/GPS data between unit power cycles and minimizes the time required to obtain an initial position fix.

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- GTX 345R is interfaced with the following Avionics system components:
  - GMA 1347 for traffic AUDIO
  - GIA 63 #1 and #2 for Transponder Control, ADSB Traffic Display.
  - Avidyne/TAS 600
  - Landing Gear Switch Circuit for Audio Cancel Discreet at Connector
  - New CI 2580200 VHF/WAAS Antenna Installed using Existing #1 Com.
- Installation/alteration was performed with reference to Advisory Circular 43.13 1B 2B and the following the listed publications:
  - Comant CI 2800200 installation Instructions II A258005
  - GTX 3XX Part 23 AML STC Installation Manual REV 1
  - GTX 3X5 ADS-B Maintenance Manual 190-00734-11
  - Procedures found in where complied with during System Installation
- Maximum electrical load did not exceed 80% of the generating capacity of the electrical charging system.
- The installation exhibits no interference to communication or navigation systems.
- Weight & Balance/Equipment List have been amended.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations, manufacturer's specifications and is approved for return to service with respect to the work performed. Pertinent details of these repairs are on file at the repair station under Work Order Number 4750.

Signed:   
Signed: RON FREEMAN Date: 7/20/2020  
CRS# 137R236D

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DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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1



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

DATE: MAY 6, 2021 | DIAMOND DA42 TDI | S/N: 42.125 | REG: N101DA  
TACH: 616.0 HRS. TTAF: 616.0 HRS.

ANNUAL INSPECTION COMPLETED THIS DATE USING DIAMOND AIRCRAFT DA42 TDI INSPECTION CHECKLIST.

**MSB 42-133** DIAMOND AIRCRAFT MANDATORY SERVICE BULLETIN *INSPECTION OF UPPER RUDDER BEARING INSTALLATION*, DATED FEBRUARY 7, 2018 COMPLIED WITH FOLLOWING ACCOMPLISHMENTS/INSTRUCTIONS SECTION OF THE MSB. EXECUTION REPORT COMPLETED AND SENT TO DIAMOND AIRCRAFT. NO FURTHER ACTION REQUIRED.

**MSB 42-137/1** DIAMOND AIRCRAFT MANDATORY SERVICE BULLETIN, *INSPECTION OF T-YOKE AXLE NUT FOR LOOSENESS*, DATED DECEMBER 11, 2019 COMPLIED WITH FOLLOWING DIAMOND AIRCRAFT WORK INSTRUCTION WI-MSB 42-137, DATED OCTOBER 21, 2019. NO FAULTS NOTED. EXECUTION REPORT COMPLETED AND SENT TO DIAMOND AIRCRAFT. DUE AGAIN IN 200 HOURS, **816.0 HOURS TACH/TTAF OR 12 MONTHS, MAY 2022, WHICHEVER OCCURS FIRST.**

**MSB 42-140/1** DIAMOND AIRCRAFT MANDATORY SERVICE BULLETIN *INITIAL CHECK OF MAIN INSPECTION LANDING GEAR MLG AXLES AND REPLACEMENT OF AFFECTED MAIN AXLES* COMPLIED WITH BY MEASURING THE INNER DIAMETER D OF THE LEFT AND RIGHT MAIN LANDING GEAR AXLES. INNER DIAMETERS OF LEFT AND RIGHT MAIN LANDING GEAR AXLES ARE 20MM (PASSING). EXECUTION REPORT COMPLETED AND SENT TO DIAMOND AIRCRAFT. NO FURTHER ACTION REQUIRED.

REMOVED LEFT ENGINE, P/N:(02-7200-14017R1) S/N:(02-01-0679).  
INSTALLED NEW LEFT ENGINE, P/N:(05-7200-K000302) S/N:(02-02-05276).

REMOVED RIGHT ENGINE P/N:(02-7200-1401R1) S/N:(02-01-0680).  
INSTALLED NEW LEFT ENGINE, P/N:(05-7200-K000302) S/N:(02-02-05276).

**OSB42-046/2** DIAMOND AIRCRAFT OPTIONAL SERVICE BULLETIN *RETROFIT OF THE TAE 125-02-99 ENGINE, INCL. WI REV. 3.* COMPLIED WITH. USED DIAMOND UPGRADE KIT P/N:(OSB-42-046-1-KIT) AND CONTINENTAL UPGRADE KIT 1.7-2.0.

MODIFIED LEFT AND RIGHT ENGINE COWLINGS AT HEAT EXCHANGER LOCATION.  
BLENDED PAINT AND FIRE PAINT.

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	<b>TOTAL</b> -Carry forward to next page



DATE	TOTAL TIME IN SERVICE	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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REPLACED ELT BATTERY PACK P/N:(455-0012)  
 ELT INSPECTED IN ACCORDANCE WITH CFR 91:207(D). ELT BATTERY EXP: **APRIL 2028**  
 REPLACED ALTERNATOR EXCITATION BATTERIES P/N:(LC-R121R3P). BATTERY EXP: **MAY 2022**  
 REPLACED FADEC/EECU BACK UP BATTERIES P/N:(LC-R127R2P). BATTERY EXP: **MAY 2022**  
 INSPECTED EMERGENCY BACK UP BATTERY, P/N:(D60-2560-91-00). BATTERY EXP: **JULY 2022**  
 REMOVED STRIPES AND N-NUMBERS.  
 INSTALLED NEW STRIPE PACKAGE AND N-NUMBERS.  
 INSTALLED NEW ICE PROTECTION FILM ON LEFT AND RIGHT SIDE OF NOSE.  
 REMOVED PILOT AND COPILOT SEAT BELT ASSEMBLIES. INSTALLED NEW PILOT AND COPILOT SEAT BELT ASSEMBLIES, P/N:(5-01-1C0710) AND P/N:(5-01-1C5710).  
 INSTALLED TWO GUARDIAN USB CHARGING PORTS ON PILOT AND COPILOT SIDE PANELS P/N:(IFDR250-101SD) REFERENCING DOCUMENT NO. 250-M DATED 8/18/16 REV. A.  
 STALL HEAT DID NOT FUNCTION PROPERLY-  
 REPAIRED PUSHED BACK PIN AT STALL UNIT CONNECTOR.  
 FOUND DE-ICE TANK FLUID LEVEL SENDER TO BE FAULTY.  
 REPLACED WITH NEW SENDER, P/N:(D60-3013-25-00).  
 REPLACED LEFT AND RIGHT VOLTAGE REGULATORS, P/N:(02-7150-55112R4).  
 REPLACED LEFT AND RIGHT CONTINENTAL FUEL FILTER CARTRIDGES, P/N:(05-7310-K002001).  
 REPLACED CANOPY AND PASSENGER DOOR LOCK TUMBLERS TO MATCH THE SAME KEY.  
 INSPECTED AND SERVICED ALL WHEEL BEARINGS.  
 PERFORMED EMERGENCY AND NORMAL GEAR SWINGS. OPERATIONAL CHECK GOOD.

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.



CHRISTIAN HEDRICK

A&P 3740465 IA



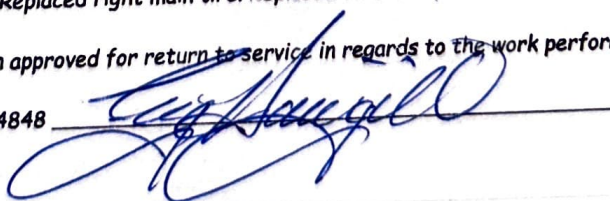
Christiansen Aviation Inc. 106 W. Piper Dr. Tulsa, OK 74132

DATE: July 8, 2021 N101DA S/N: 42.125 TACH: 655.5

WORK PERFORMED: Replaced right main tire. Replaced all brake pads.

This aircraft has been approved for return to service in regards to the work performed.

Greg Harrigill AP 3174848



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

DATE: 4-26-2022 | DIAMOND DA42 | S/N: 42-125 | REG: N101DA  
TACH: 737.8 HRS. TTAF: 737.8 HRS.

ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT DA42 TDI INSPECTION CHECKLIST.  
NO AD'S DUE AT THIS TIME.

**MSB 42-137/1** DIAMOND AIRCRAFT MANDATORY SERVICE BULLETIN, INSPECTION OF RUDDER T- YOKE AXLE NUT FOR LOOSENESS, DATED DECEMBER 11, 2019, COMPLIED WITH THE FOLLOWING DIAMOND AIRCRAFT WORK INSTRUCTIONS WI-MSB 42-137, DATED OCTOBER 2019. NO FAULTS NOTED. DUE AGAIN IN 200 HRS, **937.8 HOURS TACH/TTAF OR 12 MONTHS, MAY 2023 WHICHEVER OCCURS FIRST**

ELT TESTED IN ACCORDANCE WITH CFR 91:207(D). EXP: **APRIL 2028**  
REPLACED FADEC BACKUP BATTERIES, P/N:(NP7-12). EXP: **MAY 2023**  
REPLACED ALTERNATOR EXCITATION BATTERIES, P/N:(NP1.2-12). EXP: **MAY 2023**  
INSPECTED EMERGENCY BACK UP BATTERY. EXP **JULY 2022**  
INSTALLED AUTOPILOT PITCH SERVO PN:(065-00178-2500 KS-270C) SN: 2127  
INSTALLED AUTOPILOT PITCH TRIM SERVO PN: (065-00180-3500) SN: X5155  
INSTALLED TWO TKS FILTERS PN: (D60-3013-11-90)  
REPAIRED COMPOSITE DAMAGE AT TRAILING EDGE OF LEFT WING  
INSTALLED NEW WING WALKS  
REPLACED 2, 250V 2AMP FUSES FOR RIGHT PROPELLER ACCUMULATOR  
SERVICED RIGHT PROPELLER ACCUMULATOR WITH NITROGEN  
REPLACED NLG TIRE WITH GOODYEAR FLIGHT SPECIAL II 5.00-5 10 PLY  
REPLACED NLG TUBE WITH 5.00X5 90 DEGREE STEM TUBE (06-00755)  
REPLACED BOTH MLG TIRES WITH GOODYEAR FLIGHT SPECIAL II 15X6.00-6  
REPLACED BOTH MLG TUBES WITH AERO CLASSIC 15/600-6 (06-00770)  
PERFORMED EMERGENCY EXTENSION OF LANDING GEAR POST MAINTENANCE, NO FAULTS NOTED  
ALL WORK PERFORMED IAW DIAMOND DA 42 TDI MAINTENANCE MANUAL

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

RONALD HOY

A&P 4183986 IA



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

DATE: 05/11/2022 | DIAMOND DA42 TDI | S/N: 42.125 | REG: N101DA  
TACH: 737.8 HRS.

REMOVED RIGHT SIDE PROPELLER ACCUMULATOR AND REPLACED WITH SERVICABLE UNIT.

ALL WORK PERFORMED SATISFACTORILY FOLLOWING DIAMOND AIRCRAFT DA42 SERIES AIRPLANE MAINTENANCE MANUAL.

ARTEM GONCHAROV

A&P 4167681

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