

AIRCRAFT TECHNICAL RECORD

Section 1. AIRFRAME LOG

AIRCRAFT

- | | |
|---|--------------|
| 1. Nationality and Registration : | N421BL |
| 2. Manufacturer's designation : | DA 42 NG |
| 3. Manufacturer's Serial Number: | 42.N388 |
| 4. Type Approval or Specification Number: | A57CE Rev.28 |
| 5. Date of Manufacture : | Jan 2020 |
| 6. Aircraft Inspections cycle: | |



Section 1: Airframe Log



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

Registration: N421BL
Airframe Total Time: 31.4
Engine LH SN: E4-C-00708
Engine LH TT: 31.4
Prop LH SN: 191176
Prop LH TT: 31.4

AC Serial Number: 42 N388
Work Order: SO 072537
Engine RH SN: E4-C-00711
Engine RH TT: 31.4
Prop RH SN: 191177
Prop RH TT: 31.4

- Aircraft Imported as "N421BL"
- Previous Entries Taken from Factory & Ferry Log
Total Time Brought Forward: 31.4 hrs
- Compass swing performed (information transferred from Original Production Records)

Date: January 16, 2020

| FOR | IN | 30 | 60 | 90 | 120 | 150 |
|-------|-----|-----|-----|-----|-----|-----|
| STEER | 000 | 031 | 061 | 090 | 121 | 151 |
| FOR | S | 210 | 240 | W | 300 | 330 |
| STEER | 180 | 239 | 239 | 270 | 299 | 329 |

- Static Pressure system and Primary Altimeter (G1000) have been inspected and tested in accordance with CAR standard 571, Appendix B and 14 CFR 91.411. Test date below taken from Original Production Records

Static Pressure System:
Test Date: Jan 16, 2020
Next Due: Jan 16, 2022

Stand By Altimeter:
Test Date: Jan 16, 2020
Next Due: Jan 15, 2022

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



Date: FEB 24 2020

Continued...



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

Registration: N421EL
Airframe Total Time: 31.4

AC Serial Number: 42 N388
Work Order: SO 072537

- 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. Dated Jan 16, 2020

TXPR re-programmed:

- USA Registration: N421BL
- Hex Code: A4FF7A

IGRF 2015

- W&B - Original, as inserted into AFM section 6 dated Jan 15, 2020

Current Empty Weight = 1480.5 kg OR 3262.84 lbs
Current Empty C of G = 2.425 m OR 95.47 in
Max Ramp Weight = 1999.0 kg OR 4407.04 lbs
Current Useful Load = 518.5 kg OR 1143.09 lbs

Garmin G1000 Installation:

Software Version: 1916.10
Obstacle Database Expiry: 2020-03-26
Navigation Database Expiry: 2020-02-27
GTX 345 Software Version: v2.12

FileCharts Expiry: 2020-02-27
SafeTaxi Expiry: 2020-03-26
ChartView Expiry: Out of date
Apt Directory Expiry: 2020-03-26

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



Date: FEB 24 2020

Continued...



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

Registration: N421BL
Airframe Total Time: 31.4

AC Serial Number: 42 N388
Work Order: SO 072537

- Following limitations as per DA 42 N388 AMM (Doc# 7-02-15) Rev 4, Chapter 04 - Subject to change with AMM revision, always refer to latest revision

Certification Maintenance Requirements:

| ATA Ch | Component | Hours | Years | Next Due |
|--------|--|-------|-------|-------------------------|
| 31 | Bonding System and static discharging system | 1000 | 1 | 1000 hrs / Jan 16, 2023 |

Replacement Requirements:

| ATA Ch | Component | Hours | Years | Next Due |
|--------|-----------------------------|-------|-------|------------------|
| 24 | Emergency battery package | | 2 | January 16, 2022 |
| 24 | ECU backup batteries L/R/RH | | 1 | January 16, 2021 |

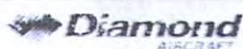
- ELT Installation:
Programmed: N421BL
ELT Battery Due Date: Feb 1, 2021
ELT P/N S185150102 S/N 1X1101060543

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



Date: FEB 24 2020

Continued...



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

Registration: N421BL
Airframe Total Time: 31.4

AC Serial Number: 42 N388
Work Order: SO 072537

Report Summary:

- Aircraft Imported with Export Certificate of Airworthiness No. 3021/20 dated January 23, 2020.
- USA Registration Letters "N421BL" installed on fuselage side surface IAW FAR 45.25 (b) (2).
- ELT reprogrammed Hex ID: A4FF7A verified for Reg No. "N421BL"
- ELT function checked IAW CAR 571 appendix G and FAR 91.207 par D.
- All applicable Airworthiness Directives, Service Bulletins complied with. See attached report
- Comm at being set to 25 KHz
- XPDR VFR code set to 1200
- AWD 31-weekly checked thru 2020-04.

I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO TYPE CERTIFICATE, A37CE Revision No. 28 AND IS IN A FIT AND SAFE STATE FOR FLIGHT

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



Date: FEB 24 2020

END.



Registration N421BL
 Airframe Total Time 31.4
 Engine LH SN E4-C-00708
 Engine LH TT 31.4
 Prop LH SN 191176
 Prop LH TT 31.4

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

AC Serial Number 421386
 Work Order SO 07537
 Engine RH SN E4-C-00711
 Engine RH TT 31.4
 Prop RH SN 191177
 Prop RH TT 31.4

NAME /
 SIGNATURE

Import Snags:

- Conformity inspection snag #5 - GPS 2 antenna not listed in AFM equipment list. Verified GPS 2 antenna PN: GA36 installed on aircraft. AFM equipment list amended as required.
- Conformity inspection snag #6 - AFM equipment list has 2 types of emergency battery listed. Confirmed new style emergency battery PN: CR 123A installed IAW TFR-MAM 42-1025. AFM equipment list amended as required.

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



Date FEB 26 2020

END.

Date: 26 FEB 2020

I find that this aircraft: N421BL

requirements for the certificate requested and have issued a STANDARD

Airworthiness Certificate.

Eric H. Davidge FAA DAR-T 612515995



Registration N421BL
 Airframe Total Time 32.7
 Engine LH SN E4-C-00708
 Engine LH TT 32.7
 Prop LH SN 191176
 Prop LH TT 32.7

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

AC Serial Number 421386
 Work Order SO 07537
 Engine RH SN E4-C-00711
 Engine RH TT 32.7
 Prop RH SN 191177
 Prop RH TT 32.7

The Following Maintenance was Performed:

- NLG gear down LED bulb reseated in receptacle.
- Activated "generate internal sidetone" for Com 1 & 2.
- Adjusted Canopy seal as required.
- Adjusted overhead map light console as required.
- Installed standby AI knob cover PN: 36022
- Adjusted stall warning vane up 1 mm.
- Adjusted LH/RH ailerons up 1/2 turn at short rod aft rod end.
- Replaced PFD/MFD
 - Removed PFD PN: 011-03470-00 SN: 494005824
 - Installed PFD PN: 011-03470-00 SN: 494006192
 - Removed MFD PN: 011-03470-80 SN: 494805032
 - Installed MFD PN: 011-03470-80 SN: 494805108

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



Date MAR 04 2020

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



Date MAR 04 2020

END.

| | | | | | |
|---|--------------------|--|--------------|--------------------|--------------------------------------|
| 1. Approving Civil Aviation Authority/Country: FAA/United States | | AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG | | | 3. Form Tracking Number: 17104508 |
| 4. Organization Name and Address: GARMIN International 1200 E. 151st St. Olathe, KS 66062 Certificate Number PT37420E | | | | | 5. Work Order/Job Number: 1710 |
| 6. Item: | 7. Description: | 8. Part Number: | 9. Quantity: | 10. Serial Number: | 11. Status/Work: |
| 1 | GDU1050, Unit Only | 010-01308-00 Includes 011-03470-00 ✓ | 1 | 494006192 ✓ | None |
| 12. Remarks: TSO C113a, ETSO 2C169a | | | | | |
| 13a. Certifies the items identified above were manufactured in conformity to: <div style="margin-top: 10px;"> <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12. </div> | | | | | |
| 13b. Authorized Signature: <i>Alice F. Inch</i> | | 13c. Approval/Authorization No.: ODA-240087-CE | | | |
| 13d. Name (Typed or Printed): Alice F. Inch | | 13e. Date (dd/mm/yyyy): 19/Feb/2020 | | | |
| User/Installer Responsibilities | | | | | |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.</p> <p>Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flown.</p> | | | | | |

Reg. Art.

ATA Ch. 51

ATA Ch. 24

ATA Ch. 24

The

| | | | | | |
|--|--------------------|---|--------------|--------------------|------------------------------------|
| 1. Approving Civil Aviation Authority/Country: FAA/United States | | 2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG | | | 3. Form Tracking Number: 169390 |
| 4. Organization Name and Address: GARMIN International 1200 E. 151st St. Olathe, KS 66062 Certificate Number PT3742CE | | | | | 5. Work Order/Number: 16 |
| 6. Item: | 7. Description: | 8. Part Number: | 9. Quantity: | 10. Serial Number: | 11. Status/Work: |
| 1 | GDU1055, Unit Only | 010-01308-80 Includes 011-03470-80 | 1 | 494805108 ✓ | He |

12. Remarks:
TSO C113a, ETSO 2C169a

RECEIVED

2003-85

13a. Certifies the items identified above were manufactured in conformity to:

- ☒ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 12.

14a. ☒ 14 CFR 43.9 Return to Service ☐ Other (specify):
 Certifies that unless otherwise specified in Block 12, the work identified and described in Block 12 was accomplished in accordance with the Federal Regulations, part 43 and in respect to that work, the items are return to service.

13b. Authorized Signature:

Bradley J. Miller

13c. Approval/Authorization No.:

ODA-240087-CE

14b. Authorized Signature:

13d. Name (Typed or Printed):

Bradley J. Miller

13e. Date (dd/mm/yyyy):

27/Nov/2019

14c. Name (Typed or Printed):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Section 1: Airframe Log

2

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



DIAMOND AIRCRAFT IND.
D.O.T. APPROVED MAINTENANCE
ORGANIZATION 161-53

Registration: N421BL
Airframe Total Time: 34.2
Engine LH SN: E4-C-00708
Engine LH TT: 34.2
Prop LH SN: 191176
Prop LH TT: 34.2

AC Serial Number: 42.N388
Work Order: SU 072527
Engine RH SN: E4 C-00711
Engine RH TT: 34.2
Prop RH SN: 191177
Prop RH TT: 34.2

The Following Maintenance was Performed:

- Replaced lift detector PN: C-99701-1 SN: 177511-03 TTSN: 34.2 hrs. with serviceable unit removed from 42.N389 (N597ER) SN 176787-13 TTSN: 30.2 hrs

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



Date: MAR 04 2020

END.

Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

Airframe

| | | | |
|------------------------|---------------|--------------------|-------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: |
| Reg. No: N421BL | | Hobbs: 0 | TT Adjust: |
| WORK PERFORMED: | | | Total Time: |

Removed hub caps on main tires per owner's request. Weight and balance not affected.

| | | |
|---------------------------|----------------------|----------|
| Rachel Weindt A&P 3889290 | <i>Rachel Weindt</i> | 3/5/2020 |
| Name/ Certificate No. | Signature | Date |



Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

Airframe

| | | | |
|------------------------|---------------|--------------------|------------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 40.1 |
| Reg. No: N421BL | | Hobbs: 0 | TT Adjust: 0 |
| WORK PERFORMED: | | | Total Time: 40.1 |

Installed Hobbs hour meter (P/N: 85094). Ops check good.

| | | |
|---------------------------|----------------------|----------|
| Rachel Weindt A&P 3889290 | <i>Rachel Weindt</i> | 3/6/2020 |
| Name/ Certificate No. | Signature | Date |

PAGE TOTALS

CARRY FORWARD to Top of Next Page



Registration: N421BL
Airframe Total Time: 106.1

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

AC Serial Number: 42 N388
Work Order: SO 072608

The Following Maintenance was Performed:

- Pilot & Co-pilot, outboard Seat edge adjusted
- Instrument Panel Cover adjusted to obtain correct fit
- "Diamond Aircraft" Logos installed on LH & RH nose baggage doors
- LH Blue Line Logo replaced on tail

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

ACA



Date: APR 21 2020

END.



Registration: N421BL
Airframe Total Time: 107.0

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

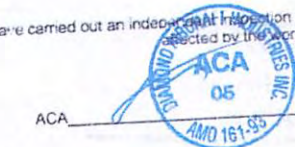
AC Serial Number: 42 N388
Work Order: SO 072608

The Following Maintenance was Performed:

- RH Aileron Short Rod, Aileron End Adjusted Out 1/2 Turn
- LH Propeller Governor Adjusted Out 1/4 Turn
- Lift Detector Tang Seat Adjusted

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

ACA



Date: APR 21 2020

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

ACA



Date: APR 21 2020

END.



Registration: N421BL
Airframe Total Time: 107.0

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

AC Serial Number: 42 N388
Work Order: SO 072608

The Following Maintenance was Performed:

- LH Propeller Governor Adjusted Out 1/4 Turn

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

ACA



Date: APR 21 2020

END.



Registration: N421BL
Airframe Total Time: 108.2

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

AC Serial Number: 42 N388
Work Order: SO 072608

The Following Maintenance was Performed:

- LH Prop Governor Removed P/N: P-877-16 S/N: 19G4631G
- New LH Prop Governor Installed P/N: P-877-16 S/N: 19G8051G

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

ACA



Date: 24/04/2020

END.

| | | | | | |
|---|--------------------------------|--|------------------|----------------------------|--|
| 1. Approving Competent Authority/Country Zuständige Genehmigungsbehörde / Staat Luftfahrt-Bundesamt / Germany | | 2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1 Freigabebescheinigung EASA-Formblatt 1 | | | 3. Form Tracking Number Lfd. Nummer 3821/19 |
| 4. Organisation Name and Address: Name und Anschrift des Unternehmens MT-Propeller Entwicklung GmbH Flugplatzstraße 1 94348 Atting - Germany | | 5. Work Order/Contract/Invoice Arbeitsauftrag/Bestellung/Rechnung 2010023393 | | | |
| 6. Item Pos. | 7. Description Beschreibung | 8. Part No. Teile-Nr. | 9. Qty. Menge | 10. Serial No. Werk-Nr. | 11. Status/Work Status/Arbeiten |
| 1 | Governor | P-877-16 | 1 | 19G805-I/G | "NEW" |

12. Remarks
Bemerkungen
Governor is new.
Year of construction: 2019
TSN: 00:00 hrs.

13a. Certifies that the items identified above were manufactured in conformity to:
Bescheinigt, dass die oben angegebenen Artikel hergestellt wurden in Übereinstimmung mit:

- ☒ approved design data and are in a condition for safe operation
genehmigten Konstruktionsdaten und sich in einem betriebssicheren Zustand befinden
- ☐ non-approved design data specified in block 12
nicht genehmigten Konstruktionsdaten gemäß Angabe in Feld 12

14a. ☐ Part-145.A.50 Release to Service
Teil-145.A.50 Freigabe

☐ Other Regulation specified in block 12
Andere in Feld 12 angegebene Vorschrift

Certifies that unless otherwise specified in block 12, the work identified in block 11 and describe 12, was accomplished in accordance with Part 145 and in respect to that work the items are cor ready for release to service.
Bescheinigt hiermit, dass, wenn in Feld 12 nichts anderes festgelegt ist, die in Feld 11 angeführte und in Feld 12 beschriebene A Übereinstimmung mit Teil-145 durchgeführt wurde und dass der Artikel im Hinblick auf diese Arbeit für die Erstellung einer Freigabe

13b. Authorised Signature
Rechtsgültige Unterschrift

13c. Approval/Authorisation Number
Nr. der Genehmigung
DE.21G.0008

14b. Authorised Signature
Rechtsgültige Unterschrift

14c. Certificate/Approval Ref. No.
Nr. der Genehmigung/Freigabe

13d. Name
Name
Gregor Paisdzior

13e. Date (dd mmm yyyy)
Datum (TT MMM JJJJ)
23 Oct 2019

14d. Name
Name

14e. Date (dd mmm yyyy)
Datum (TT MMM JJJJ)

USER/INSTALLER RESPONSIBILITIES

This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements in block 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification in accordance with the national regulations by the user/installer before the aircraft may be flown.


VERANTWORTLICHKEITEN DES BENUTZERS/AUSRÜSTERS


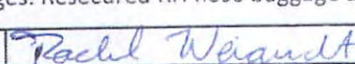
Diese Bescheinigung verleiht nicht automatisch die Befugnis zum Einbau der Artikel. Führt der Benutzer/Ausrüster Arbeiten in Übereinstimmung mit den Vorschriften einer anderen Luftfahrtbehörde als der in Feld 1 angegebenen Luftfahrtbehörde durch, muss der Benutzer/Ausrüster sicherstellen, dass seine Luftfahrtbehörde Artikel der in Feld 1 angegebenen Luftfahrtbehörde akzeptiert. Angaben in den Feldern 13a und 14a stellen keine Einbaubescheinigung dar. In jedem Fall müssen die Instandhaltungsunterlagen des Luftfahrzeugs eine Freigabe enthalten, die in Übereinstimmung mit den nationalen Vorschriften vom Benutzer/Ausrüster ausgestellt wurde, bevor ein Flug mit dem Luftfahrzeug durchgeführt werden darf.


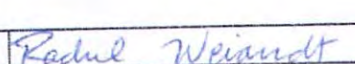
Section 1: Airframe Log



3

| DATE 1 / 1 | AIR TIME | | | | LANDINGS / CYCLES | | DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT) |
|-----------------|-------------|-----|-------|-----|-------------------|-------|---|
| | DAILY TOTAL | | TOTAL | | DAILY TOTAL | TOTAL | |
| | HRS | MIN | HOURS | MIN | | | |
| CARRIED FORWARD | | | | | | | |


| | | | | | |
|--|---------------|---|------------------|-----------------|--|
|  BLUE LINE TECHNICAL SERVICES 919-578-3728 | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 59.5 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 26.7 | Total Time: 59.5 | | |
| Replaced torn registration "B" letter on left side. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 3/13/2020 | |
| Name/ Certificate No. | | Signature | | Date | |


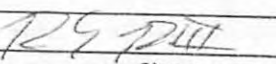
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|--|---------------|---|------------------|-----------------|--|
|  BLUE LINE TECHNICAL SERVICES 919-578-3728 | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 72.5 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 46.3 | Total Time: 72.5 | | |
| Adjusted LH and RH nose baggage door hinges. Resecured RH nose baggage door aft latch cover. | | | | | |
| Rachel Weindt A&P 3889290 | |  | | 3/19/2020 | |
| Name/ Certificate No. | | Signature | | Date | |


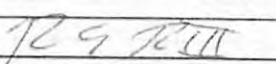
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|--|---------------|---|------------------|-----------------|--|
|  BLUE LINE TECHNICAL SERVICES 919-578-3728 | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 85.2 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 66 | Total Time: 85.2 | | |
| Resecured aft ceiling trim panel. | | | | | |
| Rachel Weindt A&P 3889290 | |  | | 3/30/2020 | |
| Name/ Certificate No. | | Signature | | Date | |

| | | | | | |
|--|---------------|--|-------------------|-----------------|--|
|  BLUE LINE TECHNICAL SERVICES 919-578-3728 | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 130.3 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 132.3 | Total Time: 130.3 | | |
| 100hr and Annual Inspection. Inspected ELT per 91.207(d) battery expires February 2026. Replaced all LH and RH brake linings (P/N: RA66-105). Replaced flood light inverter with serviceable spare (P/N: APVL328-4-1-L-5QF). Ground run and ops check good. All ADs checked for compliance. I certify that this Airframe has been inspected IAW a 100hr and Annual Inspection per FAR 43 App. D and Diamond AMM and was determined to be in airworthy condition. | | | | | |
| Rachel Weindt A&P/IA 3889290 | |  | | 5/12/2020 | |
| Name/ Certificate No. | | Signature | | Date | |

LICENCE
 ME or
 O/ACA


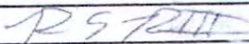
| | | | | | |
|---|---------------|---|-------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: | 139.2 | |
| Reg. No: N421BL | | | TT Adjust: | 0 | |
| WORK PERFORMED: | | Hobbs: 143.4 | Total Time: | 139.2 | |
| Replaced missing hardware on right main gear door push rod. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 5/18/2020 | |
| Name/ Certificate No. | | Signature | | Date | |


| | | | | | |
|---|---------------|---|-------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: | 168 | |
| Reg. No: N421BL | | | TT Adjust: | 0 | |
| WORK PERFORMED: | | Hobbs: 182.8 | Total Time: | 168 | |
| Replaced right nose baggage door aft limit switch with new PN# DAI-9052-00-02. Adjusted front canopy limit switch arm. Door open annunciation ops check good. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 5/30/2020 | |
| Name/ Certificate No. | | Signature | | Date | |

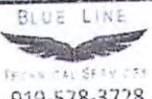
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|---|---------------|---|-------------|------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | ame | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: | 168 | |
| Reg. No: N421BL | | | TT Adjust: | 0 | |
| WORK PERFORMED: | | Hobbs: 183.9 | Total Time: | 168 | |
| Adjusted rear door limit switch arm. Door open annunciation ops check good. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 6/1/2020 | |
| Name/ Certificate No. | | Signature | | Date | |


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|--|---------------|---|-------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: | 183.5 | |
| Reg. No: N421BL | | | TT Adjust: | 0 | |
| WORK PERFORMED: | | Hobbs: 204.6 | Total Time: | 183.5 | |
| Replaced inlet cover with new PN# D44-5310-87-00. Sealed with Teroson MS393NA Black. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 7/2/2020 | |
| Name/ Certificate No. | | Signature | | Date | |

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

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|--|---------------|---|-------------|-----------|--|
|  BLUE LINE TECHNICAL SERVICES 919-578-3728 | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: | 221.3 | |
| Reg. No: N421BL | | | TT Adjust: | 0 | |
| <u>WORK PERFORMED:</u> | Hobbs: 255.1 | | Total Time: | 221.3 | |
| Updated both engine ECU software to version 24 (E4C-92-200-000 Iss. AD1). Ground run and ops check good. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 7/27/2020 | |
| Name/ Certificate No. | | Signature | | Date | |


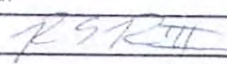
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|---|---------------|---|-----------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 222 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 256.2 | Total Time: 222 | | |
| Resecured copilot floor carpet. | | | | | |
| Rachel Weindt A&P 3889290 | | <i>Rachel Weindt</i> | | 7/31/2020 | |
| Name/ Certificate No. | | Signature | | Date | |

| | | | | | |
|---|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 226.2 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 262.4 | Total Time: 226.2 | | |
| 100/200hr and Annual Inspection. Inspected ELT per 91.207(d) battery expires February 2026. Complied with MSB 42NG-082, found rudder gap covers to be chaffing and enlarged cutouts to allow clearance. Replaced RH tire (P/N: 070-449-0, S/N: 9312S00162) and tube (P/N: 097-500-0). Tightened LH rear passenger safety belt reel. Ground run and ops check good. All ADs checked for compliance. I certify that this Airframe has been inspected IAW a 100/200hr and Annual Inspection per FAR 43 App. D and Diamond AMM and was determined to be in airworthy condition. | | | | | |
| Rachel Weindt A&P/IA 3889290 | | <i>Rachel Weindt</i> | | 8/7/2020 | |
| Name/ Certificate No. | | Signature | | Date | |


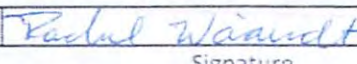
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|---|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 238.4 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 280.4 | Total Time: 238.4 | | |
| Replaced all brake linings with new RA66-105. | | | | | |
| Robert T Robinson III A&P 4074592 | | <i>Robert T Robinson III</i> | | 9/4/2020 | |
| Name/ Certificate No. | | Signature | | Date | |


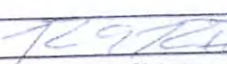
Section 1: Airframe Log

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


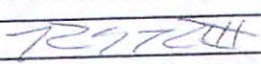
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
|---|---------------|---|-------------------|-----------|--|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 252.5 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 299.5 | Total Time: 252.5 | | |
| Lubed left engine oil door latch. Ops check good. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 9/13/2020 | |
| Name/ Certificate No. | | Signature | | Date | |


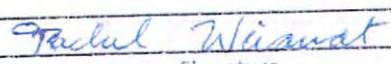
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
|--|---------------|---|-------------------|-----------|--|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 271.1 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 326.8 | Total Time: 271.1 | | |
| Replaced left main tire with new PN# 070-449-0 SN# 9264S00201. Installed new tube PN# 097-500-0. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 9/18/2020 | |
| Name/ Certificate No. | | Signature | | Date | |


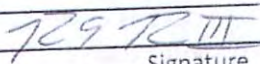
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
|---|---------------|---|-------------------|-----------|--|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 296.5 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 360.9 | Total Time: 296.5 | | |
| Replaced LH and RH brake pads with new 8 ea. (P/N: RA66-105). | | | | | |
| Rachel Weindt A&P 3889290 | |  | | 10/2/2020 | |
| Name/ Certificate No. | | Signature | | Date | |

|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
|---|---------------|---|-------------------|-----------|--|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 297.7 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 362.8 | Total Time: 297.7 | | |
| Tightened both fuel cap tension nuts. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 10/6/2020 | |
| Name/ Certificate No. | | Signature | | Date | |

NAME/
SIGNATURELICENCE
AME or
AMO/ACA

|  Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
|--|---|--------------------|-------------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 311.4 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 382.3 | Total Time: 311.4 |
| Replaced right main tire with new PN# 070-449-0 SN# 9212S00148, installed new tube with new PN# 097-500-0. | | | |
| Robert T Robinson III A&P 4074592 |  | | 10/24/2020 |
| Name/ Certificate No. | Signature | | Date |

|  Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
|---|--|--------------------|-------------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 325.7 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 401.8 | Total Time: 325.7 |
| 100/300hr and Annual Inspection. Inspected ELT per 91.207(d) battery expires February 2026. Repaired lower LH cowling. Removed trash from pitot heat relay. Replaced LH fuel filter sump (P/N: CAV-180). Ground run and ops check good. All ADs checked for compliance. This is to certify that a 100/300hr and Annual Inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This aircraft has been determined to be in airworthy condition and is approved for return to service. | | | |
| Rachel Welandt A&P/IA 3889290 |  | | 11/5/2020 |
| Name/ Certificate No. | Signature | | Date |

|  Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
|--|--|--------------------|-------------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 330.9 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 409.6 | Total Time: 330.9 |
| Replaced both main tires with new PN# 070-449-0 Left SN# 9207S00117, Right SN# 9212S00150. Installed new tubes in both PN# 097-500-0. All maintenance performed on this aircraft was performed in accordance with current manufacturer's requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | |
| Robert T Robinson III A&P 4074592 |  | | 11/9/2020 |
| Name/ Certificate No. | Signature | | Date |

Section 1: Airframe Log


6


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

Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

Airframe

| | | | |
|---|---------------|------------------------------|-------------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 339.2 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 421.5 | Total Time: 339.2 |
| Replaced both alternator switches with new PN# 7101K2ZQE. Ground run and ops check normal. All maintenance performed on this aircraft was performed in accordance with current manufacturer's requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | |
| Robert T Robinson III A&P 4074592 | | <i>Robert T Robinson III</i> | 11/18/2020 |
| Name/ Certificate No. | | Signature | Date |

| | | | |
|---|---|----------------------|-------------------|
|  | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 373.6 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 468.3 | Total Time: 373.6 |
| Resecured copilot floor mat. | | | |
| Rachel Weindt A&P 3889290 | | <i>Rachel Weindt</i> | 12/31/2020 |
| Name/ Certificate No. | | Signature | Date |


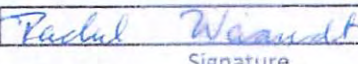
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|  | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 374.4 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 469.6 | Total Time: 374.4 |
| Replaced ECU batteries with new 4 ea. (P/N: LC-R127R2P). Next due 4 JAN 2022. | | | |
| Rachel Weindt A&P 3889290 | | <i>Rachel Weindt</i> | 1/4/2021 |
| Name/ Certificate No. | | Signature | Date |


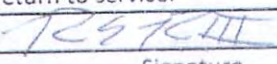
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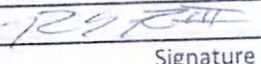
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NAME/
SIGNATURE

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|---|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 376.3 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 472.9 | Total Time: 376.3 | | |
| Replaced RH rudder chaffe tape due to bubbling. Replaced portions of the tail logo and the "4" in the N-number. | | | | | |
| Rachel Weindt A&P 3889290 | |  | | 1/5/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

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|---|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 385.7 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 486.9 | Total Time: 385.7 | | |
| Replaced all brake linings with new PN# RA66-105. | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufactures' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 1/9/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

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|---|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 387.9 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 491.7 | Total Time: 387.9 | | |
| Ecu fail reported on left engine. Pulled data download and found low fuel pressure code. No issues noted. Cleared code. Ground run and ops check normal. | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufactures' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 1/11/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

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 | | | | | | | |

| Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | | | Airframe | |
|--|---------------|--------------------|-------------|-------------------|--|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: | 391.8 | |
| Reg. No: N421BL | | | TT Adjust: | 0 | |
| WORK PERFORMED: | | Hobbs: 497.8 | Total Time: | 391.8 | |
| Pilot reported left engine "sticking" on start. Ground run and ops check normal no issues noted. Also reported, Alternator fail indications. Found to be normal operation of paralleling system. | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufactures' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Robert T Robinson III A&P 4074592 | | Signature | | 1/13/2021 Date | |
| Name/ Certificate No. | | | | | |

| Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | | | Airframe | |
|---|---------------|--------------------|-------------|-------------------|--|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: | 406.8 | |
| Reg. No: N421BL | | | TT Adjust: | 0 | |
| WORK PERFORMED: | | Hobbs: 519 | Total Time: | 406.8 | |
| Due to ESP inop and preflight test fail. Auto pilot disabled, breaker secured. Placard INOP | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufactures' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Robert T Robinson III A&P 4074592 | | Signature | | 1/21/2021 Date | |
| Name/ Certificate No. | | | | | |

| Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | | | Airframe | |
|--|---------------|--------------------|-------------|------------------|--|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: | 421.1 | |
| Reg. No: N421BL | | | TT Adjust: | 0 | |
| WORK PERFORMED: | | Hobbs: 539.6 | Total Time: | 421.1 | |
| Copilot floor mat loose. Resecured with new velcro. | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Rachel Weindt A&P 3889290 | | Signature | | 2/1/2021 Date | |
| Name/ Certificate No. | | | | | |

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA


BLUE LINE
TECHNICAL SERVICES
919-578-3728

Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

Airframe

| | | | |
|------------------------|---------------|--------------------|-------------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 425.2 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 545.4 | Total Time: 425.2 |

100/200hr and Annual Inspection. Inspected ELT per 91.207(d) battery expires February 2026. Painted lower LH cowling. Replaced RH vinyl 4 in N-number. Replaced aux power switch with new (P/N: 7101K2ZQE). Reinstalled rubber cap on copilot's stick. Ground run and ops check good. All ADs checked for compliance. This is to certify that a 100/200hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This aircraft has been determined to be in airworthy condition and is approved for return to service.

Rachel Weindt A&P/IA 3889290

Rachel Weindt

2/11/2021


Name/ Certificate No.


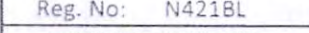
Signature


Date


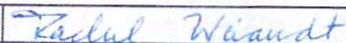


Section 1: Airframe Log

| DATE / / | AIR TIME | | | | LANDINGS / CYCLES | | DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT) |
|---|-------------|-----|-------|-----|-------------------|-------|---|
| | DAILY TOTAL | | TOTAL | | DAILY TOTAL | TOTAL | |
| | HRS | MIN | HOURS | MIN | | | |
| CARRIED FORWARD  | | | | | | | |
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|--|--|---|--|--------------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | | Model: DA42NG | | Serial No: 42.N388 | |
| Reg. No: N421BL | | | | Tach: 427.4 | |
| WORK PERFORMED: | | | | TT Adjust: 0 | |
| | | Hobbs: 549.9 | | Total Time: 427.4 | |
| Replaced 1 missing VG on right inboard side. PN# D64-5710-06-01. Painted to match. Applied with Loctite AA330. | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 2/22/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

| | | | | | |
|--|---------------|---|-------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: | 430.6 | |
| Reg. No: N421BL | | | TT Adjust: | 0 | |
| <u>WORK PERFORMED:</u> | | Hobbs: 554.8 | Total Time: | 430.6 | |
| Replaced Pilot LH rudder pedal tension spring with new (P/N: TF1,6X14,1DEX55,8). | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Rachel Weindt A&P 3889290 | | <i>Rachel Weindt</i> | | 2/23/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

| | | | | | |
|--|---------|---|--------|---|-------------|
|  BLUE LINE TECHNICAL SERVICES 919-578-3728 | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | <h1 style="margin: 0;">Airframe</h1> | |
| Make: | Diamond | Model: | DA42NG | Serial No: | 42.N388 |
| Reg. No: | N421BL | | | Tach: | 454.7 |
| | | | | TT Adjust: | 0 |
| <u>WORK PERFORMED:</u> | | | Hobbs: | 590.4 | Total Time: |
| Tested pilot and copilot autopilot disconnect switches, ops check good. Tested autopilot system and electrim trim on ground, ops check good. Flight test good. Autopilot enabled and inop placard removed. | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Rachel Weiandt A&P 3889290 | | | |  | |
| Name/ Certificate No. | | | | Date | |

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

Airframe

| | | | |
|------------------------|---------------|--------------------|-------------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 478.7 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 627.4 | Total Time: 478.7 |

This aircraft was put on an AAIP on 10/29/2020 and is maintained under 91.409(f)(2) and 135.419.

All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service.

| | | |
|-----------------------------------|--------------------|-----------|
| Robert T Robinson III A&P 4074592 | <i>[Signature]</i> | 3/31/2021 |
| Name/ Certificate No. | Signature | Date |



Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

Airframe

| | | | |
|------------------------|---------------|--------------------|-----------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 485 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 637.3 | Total Time: 485 |

Disabled AP breaker and secured. Placarded INOP.

All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service.

| | | |
|-----------------------------------|--------------------|----------|
| Robert T Robinson III A&P 4074592 | <i>[Signature]</i> | 4/5/2021 |
| Name/ Certificate No. | Signature | Date |

Registration #: 421BL
Manufacturer: DIAMOND

Part/Model No: DA42MNG
Work Order No: 10-21733



TACH: 489.10
HOBBS:
A/C Total Time:
Aircraft Serial No: 42.N388
Date: 2021/04/08

Squawk

1.1

Discrepancy: PRTM FAILURE

Resolution: REPLACED AP DISC SWITCH ON COPILOTS CONTROL STICK DUE TO INTERNAL SWITCH FAILURE.
RETURNED AUTOPILOT TO SERVICE IAW DIAMOND AIRCRAFT LMM DOC# 190-02361-00 REV 1.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Repair Station under Work Order No 10-21733 dated .

Date: 4-8-21

Signature: *[Signature]*


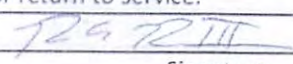
Work Order: 10-21733


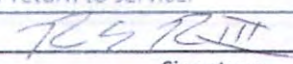
Certified Repair Station Number: XSPR699K


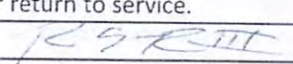
Section 1: Airframe Log

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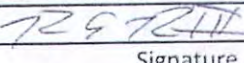
| DATE / / | AIR TIME | | | | LANDINGS / CYCLES | | DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT) |
|-----------------|-------------|-----|-------|-----|-------------------|-------|---|
| | DAILY TOTAL | | TOTAL | | DAILY TOTAL | TOTAL | |
| | HRS | MIN | HOURS | MIN | | | |
| CARRIED FORWARD |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


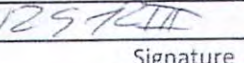
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|--|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 489.4 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 645.7 | Total Time: 489.4 | | |
| ECU fails reported on left engine, found wastegate controller inop. Replaced left engine waste gate controller with new (P/N: E4A-41-120-000) with new circlip (P/N: E4A-41-100-801). Reused fail-safe bridge. Adjusted main canopy door limit switch bracket. | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 4/8/2021 | |
| Name/ Certificate No. | | Signature | | Date | |


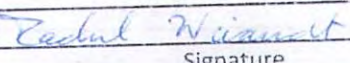
| | | | | | |
|--|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 490.7 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 647.9 | Total Time: 490.7 | | |
| Inspected left main tire due to small gouge in center of tire. Condition ok at this time | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 4/14/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

| | | | | | |
|--|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 500.7 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 662.9 | Total Time: 500.7 | | |
| Replaced all brake linings with new RA66-105. | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 4/22/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

| | | | | | |
|--|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 509.4 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 674.8 | Total Time: 509.4 | | |
| Replaced left main tire with new PN# 070-449-0 SN# 0224T00017, installed new tube PN# 097-500-0. | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 5/3/2021 | |
| Name/ Certificate No. | | Signature | | Date | |


| | | | | | |
|--|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 513.4 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 681.1 | Total Time: 513.4 | | |
| Disabled AP and secured breaker. Placarded INOP | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Robert T Robinson III A&P 4074592 | |  | | 5/4/2021 | |
| Name/ Certificate No. | | Signature | | Date | |


| | | | | | |
|---|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 521.7 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 694.5 | Total Time: 521.7 | | |
| 100hr and Annual Inspection. Inspected ELT per 91.207(d) battery expires February 2026. Replaced LH tire with new (P/N: 070-449-0, S/N: 0224T00110) and tube with new (P/N: 097-500-0). Replaced pilot AP disconnect switch. Cleaned copilot rudder pedal slide. Installed new white tape on RH side of rudder. Cleaned elevator trim friction rod. Reglued canopy headliner fabric. Ground run and ops check good. All ADs checked for compliance. This is to certify that a 100hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This aircraft has been determined to be in airworthy condition and is approved for return to service. | | | | | |
| Rachel Weindt A&P/IA 3889290 | |  | | 5/7/2021 | |
| Name/ Certificate No. | | Signature | | Date | |


Section 1: Airframe Log

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

|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
|--|---------------|---|-------------------|-----------|--|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 618.7 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 846 | Total Time: 618.7 | | |
| 100/200/300/600hr and Annual Inspection. Inspected ELT per 91.207(d) battery expires February 2026. Replaced LH main tire with new (P/N: 156E66B1, S/N: 00195279) and tube with new (P/N: 097-500-0). Replaced nose wheel tire with new (P/N: 301-018-420, S/N: 02870133) and tube with new (P/N: 097-908-0). Replaced LH and RH exhaust pipes with new (P/N: D64-7806-12-00_1) with new gaskets 2 ea (P/N: E4A-04-000-003) and nuts 8 ea (P/N: 2142110). Resecured pilot floor carpet. Installed new terminal ring on LH landing gear leg bonding strap. Replaced LH and RH tie down rubber washers. Ground run and ops check good. All ADs checked for compliance. This is to certify that a 100/200/300/600hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This aircraft has been determined to be in airworthy condition and is approved for return to service. | | | | | |
| Rachel Weiandt A&P/IA 3889290 | | <i>Rachel Weiandt</i> | | 7/12/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
|--|---------------|---|-------------------|-----------|--|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 669.8 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 925.1 | Total Time: 669.8 | | |
| Pilot rudder pedal adjustment reported as inop. Found gear belt to be broken, replaced with new (P/N: CXP3-111-3M-04_HTD). Ops check good. | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Rachel Weiandt A&P 3889290 | | <i>Rachel Weiandt</i> | | 8/20/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
|--|---------------|---|-------------------|-----------|--|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 682.3 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 944.5 | Total Time: 682.3 | | |
| RH low fuel pressure annunciation reported. Removed RH low pressure pumps and cleaned pump prefilters. Cleaned check valve parallel to pumps. Reinstalled pumps and check valve. Leak check and ground run good. Replaced RH brakes with new 4 ea (P/N: RA66-105). | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Rachel Weiandt A&P 3889290 | | <i>Rachel Weiandt</i> | | 8/25/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

Airframe

| | | | |
|--|------------------------|--------------------|-------------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 702.7 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 977.5 | Total Time: 702.7 |
| Replaced right main tire with new PN# 070-449-0 SN# 1035T00193, installed new tube PN# 097-500-0 | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | |
| Robert T Robinson III A&P 4074592 | <i>Robert Robinson</i> | | 9/10/2021 |
| Name/ Certificate No. | Signature | | Date |



Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

Airframe

| | | | |
|--|------------------------|--------------------|-------------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 701.8 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 976 | Total Time: 701.8 |
| Reassembled right wing fuel cap. | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | |
| Robert T Robinson III A&P 4074592 | <i>Robert Robinson</i> | | 9/10/2021 |
| Name/ Certificate No. | Signature | | Date |



Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

Airframe


| | | | |
|--|----------------------|--------------------|-------------------|
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 717.4 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 1001.4 | Total Time: 717.4 |
| 100hr and Annual Inspection. Inspected ELT per 91.207(d) battery expires February 2026. Replaced LH and RH tie down rubber washers. Ground run and ops check good. All ADs checked for compliance. This is to certify that a 100hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This aircraft has been determined to be in airworthy condition and is approved for return to service. | | | |
| Rachel Weindt A&P/IA 3889290 | <i>Rachel Weindt</i> | | 9/28/2021 |
| Name/ Certificate No. | Signature | | Date |


Section 1: Airframe Log


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| DATE | | AIR TIME | | LANDINGS / CYCLES | |
|------|-------|----------|-----|-------------------|-------|
| DAY | MONTH | TOTAL | | DAILY TOTAL | TOTAL |
| | | HOURS | MIN | | |

DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT)


| | | | |
|--|---------------|-----------------------|-------------------|
|  Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 940.5 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 939.7 | Total Time: 940.5 |
| Disabled A/C by pulling and securing circuit breaker and labeling system as "INOP". | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | |
| Rachel Weiandt A&P 3889290 | | <i>Rachel Weiandt</i> | 8/24/2021 |
| Name/ Certificate No. | | Signature | Date |


| | | | |
|--|---------------|------------------------------|-------------------|
|  Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 708.1 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 985.9 | Total Time: 708.1 |
| Replaced right main tire with new PN# 070-449-0 SN# 1035T00194. Installed new tube PN# 097-500-0. | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | |
| Robert T Robinson III A&P 4074592 | | <i>Robert T Robinson III</i> | 9/14/2021 |
| Name/ Certificate No. | | Signature | Date |


| | | | |
|--|---------------|------------------------------|-------------------|
|  Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 771.6 |
| Reg. No: N421BL | | | TT Adjust: 0 |
| WORK PERFORMED: | | Hobbs: 1086.1 | Total Time: 771.6 |
| Replaced left main tire with new PN# 070-449-0 SN# 1032T00227, installed new tube PN# 097-500-0. Replaced all brake linings with new PN# RA66-105. | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | |
| Robert T Robinson III A&P 4074592 | | <i>Robert T Robinson III</i> | 10/28/2021 |
| Name/ Certificate No. | | Signature | Date |

CARRY FORWARD to Top of Next Page

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

| | | | | | |
|---|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 792.1 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 1118.7 | Total Time: 792.1 | | |
| A/C inop. Replaced alternator excitation batteries with new 2 ea (P/N: LC-R121R3P). Replaced main relay with new (P/N: 70-903). Replaced alternator with serviceable spare (P/N: ES-10024B-2, S/N: H-U022330). Ops check good. Removed placard and enabled A/C. | | | | | |
| All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service. | | | | | |
| Rachel Weindt A&P 3889290 | | <i>Rachel Weindt</i> | | 11/19/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

| | | | | | |
|---|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 816.8 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 1153.3 | Total Time: 816.8 | | |
| 100/200hr and Annual Inspection. Inspected ELT per 91.207(d) battery expires February 2026. Serviced airframe. Tightened LH and RH fuel caps. Replaced terminal end on bonding strap on NLG leg. Replaced terminal end on bellcrank in backseat. Cleaned copilot rudder pedal slide. Ground run and ops check good. All ADs checked for compliance. This is to certify that a 100/200hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This aircraft has been determined to be in airworthy condition and is approved for return to service. | | | | | |
| Rachel Weindt A&P/IA 3889290 | | <i>Rachel Weindt</i> | | 12/14/2021 | |
| Name/ Certificate No. | | Signature | | Date | |

| | | | | | |
|--|---------------|---|-------------------|-----------------|--|
|  | | Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577 | | Airframe | |
| Make: Diamond | Model: DA42NG | Serial No: 42.N388 | Tach: 846.9 | | |
| Reg. No: N421BL | | | TT Adjust: 0 | | |
| WORK PERFORMED: | | Hobbs: 1154 | Total Time: 846.9 | | |
| This aircraft is removed from Blue Line Aviation LLC's AAIP and is no longer maintained under 135.149. | | | | | |
| Rachel Weindt A&P 3889290 | | <i>Rachel Weindt</i> | | 1/3/2022 | |
| Name/ Certificate No. | | Signature | | Date | |

Section 1: Airframe Log

13

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

Reading Jet Maintenance, LLC 104-B West Apron Drive Hangar # 3 Reading, PA 19605 CRS# 5RJR738B
LOG ID# 2699 31-May-2022 WO# 13074 REF# 13074 HOBBS 1169.6
N421BL S/N 42.N388 DA 42 NG

Pg 1 / 2

**** ITEM # 13074-1 PRELIMINARY INSPECTION ****

DISCREPANCY: PRELIMINARY INSPECTION

ACTION: PERFORMED AN AIRCRAFT PRELIMINARY INTERIOR AND EXTERIOR VISUAL INSPECTION IN ACCORDANCE WITH READING JET MAINTENANCE REPAIR STATION MANUAL SECTION 2.

L/H MLG FWD TRAILING LINK PLASTIC COVER DAMAGED. L/H JACK PAD DENTED / PAINT REMOVED. R/H JACKPAD AREA DEBONDED / DAMAGED DENTED

**** ITEM # 13074-2 RELOCATE AIRCRAFT TO MX ****

DISCREPANCY: RELOCATE AIRCRAFT TO MX (FLAT L/H MAIN TIRE)

ACTION: RELOCATED AIRCRAFT TO MX HANGAR WITH LEFT MAIN ON CRASH DOLLY

**** ITEM # 13074-3 L/H MAIN LANDING GEAR TIRE FLAT ****

DISCREPANCY: L/H MAIN LANDING GEAR TIRE FLAT

ACTION: JACKED AIRCRAFT, REMOVED L/H MLG WHEEL / TIRE ASSY. DISASSEMBLED AND CLEANED WHEEL ASSY. NOTED BRAKE DISC HAS HEAVY GROOVING, OUTBOARD WHEEL HALF INTERIOR FINISH CHIPPED OFF, CORROSION FORMING. CORROSION NOTED AT THRU BOLT AREA AND RACES DISCOLORED / WATER STAINS. REMOVED TIRE P/N 070-449-0 S/N 1032T00227. INSTALLED NEW TIRE P/N 070-449-0 A/N 1095T00188 WITH NEW TUBE G15/6.00-6 P/N 302-246-401. INSTALLED NEW WHEEL THRU BOLTS P/N AN5-35A QTY 3 WITH NEW WASHERS AND LOCKNUTS. SERVICED TIRE TO 68 PSI LOADED. WORK PERFORMED IN ACCORDANCE WITH DA42 AMM 32-40-00 AND CLEVELAND WHEEL SERVICE MANUAL SECTION 300.

**** ITEM # 13074-4 L/H BRAKE DISC BLUEING AND HAS HEAVY GRO ****

DISCREPANCY: L/H BRAKE DISC BLUEING AND HAS HEAVY GROOVES (MIN .327) MEASURES APPROX .345, LININGS

Reading Jet Maintenance, LLC 104-B West Apron Drive Hangar # 3 Reading, PA 19605 CRS# 5RJR738B
LOG ID# 2699 31-May-2022 WO# 13074 REF# 13074 HOBBS 1169.6
N421BL S/N 42.N388 DA 42 NG

Pg 2 / 2

GLAZED ALSO

ACTION: REMOVED AND REPLACED BRAKE LININGS P/N 066-10500 QTY 4. INSTALLED NEW CLEVELAND DISK ASSY P/N 164-11501. INSTALLED NEW BACKING PLATE TIE BOLTS AND WASHERS P/N 103-11800 QTY 4. REINSTALLED L/H BRAKE ASSY AND TORQUED BOLTS IN ACCORDANCE WITH CLEVELAND BRAKE SERVICE MANUAL SECTION 200.

**** ITEM # 13074-5 L/H MLG WHEEL BEARINGS / RACES SCORED / ****

DISCREPANCY: L/H MLG WHEEL BEARINGS / RACES SCORED / OVERTEMP INDICATION - REPLACE

ACTION: REMOVED AND REPLACED L/H MLG WHEEL BEARING RACES (CUP). INSTALLED NEW CUPS P/N 13836-20629 QTY 2. SERVICED AND INSTALLED NEW CONE BEARINGS P/N 214-00200 QTY 2. INSTALLED AND TORQUED WHEEL IN ACCORDANCE WITH DA42 AMM 32-40-00 AND CLEVELAND WHEEL SERVICE MANUAL SECTION 300.

**** ITEM # 13074-6 SERVICE MLG STRUTS, PRESSURE SEEMS LOW ****

DISCREPANCY: SERVICE MLG STRUTS, PRESSURE SEEMS LOW

ACTION: SERVICED MLG STRUT ASSY'S TO 276 PSI WITH NITROGEN UNLOADED IN ACCORDANCE WITH DA42 AMM 32-10-00. OPERATIONAL CHECKED GOOD. LOWERED AIRCRAFT FROM JACKS.

2612026 NICK RICCIO

Date

31 MAY-2022

PAGE
TOTALS

CARRY FORWARD to Top of Next Page

AC MAKE: Diamond
AC MODEL: DA-42
AC S/N: 42.N388



TACH TIME: 829.3
HOBBS: 1178.4
A/C REG. #: N421BL

ICENCE:
AME or
MO/ACA

Date: 12/15/2022

Performed IFR cert. All FAR 91.413 tests and inspections have been completed and passed on: Garmin GTX 345 (P/N 011-03303-00, S/N 3EH026441)

All FAR 91.411 tests have been performed on: United instruments altimeter (P/N 5934PD-3, S/N 478579), Garmin GDC 72 (P/N 011-03734-00, S/N 45S002158) and all associated altitude reporting systems IAW FAR Part 43 APP E to 20,000 feet. All Tests and inspections completed and passed. FOD check and tool check completed.

FOD check and Tool Inventory Completed.

Signed

Sparkchasers Aircraft Services, Inc.
FAA CRS# XSPR699K

AIP 3971755 I.A. for

Registration #: N421BL

Manufacturer: Diamond Aircraft Industries

Part/Model No: Diamond DA402

Work Order No: 840



BLUE LINE
TECHNICAL SERVICES

TACH: 829.30

HOBBS: 1,179.90

A/C Total Time: 829.30

Aircraft Serial No: 42.N388

Date: 12/16/2022

- Annual inspection. Inspected ELT per 91.207(d), battery expires FEB 2026. Ground run and ops check good. Checked all ADs for compliance. I certify this aircraft has been inspected IAW an Annual inspection per FAR 43 App. D and Diamond AMM and was determined to be in an airworthy condition.
- ECU batteries replaced with new at this time 4 ea (P/N: NP7-12). Next due Dec. 2023
- Replaced Emergency backup battery cells with new 10 ea. (P/N: CR123A). Next due Dec. 2024.
- Replaced foam seal around LH and RH vent windows.
- Replaced RH corner of canopy bulb seal with new.
- Installed new ring terminal end to bonding strap on LH inner flap bellcrank.
- Serviced nose strut with nitrogen.
- Reglued RH jack point using 5 minute epoxy.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Maintenance Facility under Work Order No 840 dated

Date: 12/16/2022

Signature:

Paul Weisheit

Work Order: 840

AP Number: AIP 388740 14

LANCASTER AVIONICS, INC. 500-U AIRPORT ROAD LITITZ, PA 17543 CRS# LN7R261N
LOG ID# 7253 20-April-2023 WO# 27290 HOBBS 1218.0
N421BL S/N 42.N388 DIAMOND DA42NG

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*** ITEM # 27290-1 INSTALL FLIGHT STREAM 510 ***

DISCREPANCY: INSTALL FLIGHT STREAM 510.

ACTION: INSTALLED GARMIN FLIGHTSTREAM 510. OPS CHECKED GOOD.

*** ITEM # 27290-2 UPDATE G1000 NX1 DATABASES ***

DISCREPANCY: UPDATE G1000 NX1 DATABASES.

ACTION: UPDATED G1000 NX1 DATABASES TO CURRENT USING CUSTOMER ACCOUNT. OPS CHECKED GOOD.

Brody Reisinger

Brody Reisinger

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| DATE 1 / 1 | AIR TIME | | LANDINGS / CYCLES | | DETAILS OF TASK (INSPECTION, REPAIRS & REPLACEMENT) |
|-----------------|-------------|-----------|-------------------|-------|---|
| | DAILY TOTAL | TOTAL | DAILY TOTAL | TOTAL | |
| | HRS MIN | HOURS MIN | | | |
| CARRIED FORWARD | | | | | |

Reading Jet Maintenance, LLC 104-B West Apron Drive Hangar # 3 Reading, PA 19605 CRS# 5RJR738B
LOG ID# 2819 29-November-2023 WO# 13357 REF# 13357 HOBBS 1271.2
N421BL S/N 42.N388 DA 42 NG

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**** ITEM # 13357-1 PRELIMINARY INSPECTION ****
DISCREPANCY: PRELIMINARY INSPECTION
ACTION: PERFORMED AN AIRCRAFT PRELIMINARY INTERIOR AND EXTERIOR VISUAL INSPECTION IN ACCORDANCE WITH
READING JET MAINTENANCE REPAIR STATION MANUAL SECTION 2.

**** ITEM # 13357-2 REPLACE R/H MLG TIRE AND TUBE ****
DISCREPANCY: REPLACE R/H MLG TIRE AND TUBE
ACTION: REMOVED R/H TIRE P/N 070-449-0 S/N 1035T00194. INSTALLED NEW TIRE P/N 070-449-0 S/N
1093T00217 AND TUBE P/N G15/6.00-6 WITH NEW WASHERS P/N AN960-516 QTY 3 AND NUTS P/N MS21044-N5 QTY
3. SERVICED WITH NITROGEN AND LEAK CHECKED - NO LEAKS DETECTED. REINSTALLED WHEEL ASSY. WORK
PERFORMED IN ACCORDANCE WITH DA.42NG AMM 32-40-00.

**** ITEM # 13357-3 R/H BRAKE LININGS WORN NEAR MINIMUMS ****
DISCREPANCY: R/H BRAKE LININGS WORN NEAR MINIMUMS
ACTION: REPLACED R/H MLG BRAKE LINING WITH NEW P/N 066-10500 QTY 4 AND RIVETS 105-00200 QTY 8. WORK
PERFORMED IN ACCORDANCE WITH DA42NG AMM 32-40-00.

**** ITEM # 13357-4 R/H BRAKE DISC NEAR MINIMUM / GROOVED ****
DISCREPANCY: R/H BRAKE DISC NEAR MINIMUM / GROOVED
ACTION: REMOVED R/H MLG BRAKE DISC P/N RA164-01501. INSTALLED NEW DISC P/N 164-11501 (CHROME). WORK
PERFORMED IN ACCORDANCE WITH DA42NG AMM 32-40-00.

Reading Jet Maintenance, LLC 104-B West Apron Drive Hangar # 3 Reading, PA 19605 CRS# 5RJR738B
LOG ID# 2819 29-November-2023 WO# 13357 REF# 13357 HOBBS 1271.2
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CRS#5RJR738B READING JET MAINTENANCE, LLC

Date

29-NOV-2023

Reading Jet Maintenance, LLC 104-B West Apron Drive Hangar # 3 Reading, PA 19605 CRS# 5RJR738B
LOG ID# 2826 28-December-2023 WO# 13371 REF# 13371
N421BL S/N 42.N388 DA 42 NG

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**** ITEM # 13371-1 PRELIMINARY INSPECTION ****
DISCREPANCY: PRELIMINARY INSPECTION
ACTION: PERFORMED AN AIRCRAFT PRELIMINARY INTERIOR AND EXTERIOR VISUAL INSPECTION IN ACCORDANCE WITH
READING JET MAINTENANCE REPAIR STATION MANUAL SECTION 2.

**** ITEM # 13371-2 REPLACE TAXI LAMP ****
DISCREPANCY: REPLACE TAXI LAMP
ACTION: REMOVED TAXI LAMP FIXTURE, REMOVED OLD BULB AND REPLACED WITH NEW BULB P/N D15-6000K.
REINSTALLED TAXI LAMP FIXTURE.

**** ITEM # 13371-3 REPLACE LANDING LAMP ****
DISCREPANCY: REPLACE LANDING LAMP
ACTION: REMOVED LANDING LAMP FIXTURE, REMOVED OLD BULB AND REPLACED WITH NEW BULB P/N D15-6000K.
REINSTALLED LANDING LAMP FIXTURE. REINSTALLED PILOT AND COPILOT SEATS.

**** ITEM # 13371-4 R/H ENGINE COWLING OIL DOOR LATCH LOOSE ****
DISCREPANCY: R/H ENGINE COWLING OIL DOOR LATCH LOOSE
ACTION: REMOVED COWL FROM AIRCRAFT. REMOVED OIL DOOR LATCH. CLEANED AREA, APPLIED EPOXY. INSTALLED
NEW RIVETS TO ATTACH LATCH TO COWL. REINSTALLED COWL ON AIRCRAFT.

CRS#5RJR738B READING JET MAINTENANCE, LLC

Date

28-DEC-2023

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**** ITEM # 13548-1 PERFORM AN ANNUAL AIRFRAME INSPECTION ****
DISCREPANCY: PERFORM AN ANNUAL AIRFRAME INSPECTION IN ACCORDANCE WITH FAR 43 APPENDIX (D) WITH REFERENCE TO THE MANUFACTURE'S CHECKLIST
ACTION: COMPLETED AN ANNUAL AIRFRAME INSPECTION IN ACCORDANCE WITH FAR43 APPENDIX (D) WITH REFERENCE TO DIAMOND AIRCRAFT DA 42 NG AMM DOC # 7.02.15 REV.5 05-20-00. ENGINES REQUIRE ANNUAL INSPECTIONS TO BE PERFORMED BY AUSTRO CERTIFIED SERVICE CENTER.

**** ITEM # 13548-4 COMPLY WITH FAA AD 2024-06-13 DIAMOND AI ****
DISCREPANCY: COMPLY WITH FAA AD 2024-06-13 DIAMOND AIRCRAFT INDUSTRIES GMBH, LOOSE RUDDER T-YOKE BOLT NUT, EXCESSIVE WEAR OF THE HOLE, INSUFFICIENT HOLE EDGE MARGIN AT THE RUDDER STEERING BRACKET
ACTION: COMPLIED WITH FAA AD 2024-06-13 - INSPECTED T YOKE BOLT HOLE AND NUT POSITION. NO DEFECTS NOTED. INSTALLED NEW NUT P/N DIN985-M6-A2. WORK PERFORMED IN ACCORDANCE WITH DIAMOND MSB42NG-086/1. NEXT INSPECTION DUE 1112.8 TIN, 200 HOUR INTERVAL.

**** ITEM # 13548-5 COMPLY WITH FAA AD 2022-06-08 DIAMOND AI ****
DISCREPANCY: COMPLY WITH FAA AD 2022-06-08 DIAMOND AIRCRAFT INDUSTRIES GMBH, FLAP BELL CRANK INSPECTION / MODIFICATION
ACTION: COMPLIED WITH FAA AD 2022-06-08 - INSPECTED FLAP BELL CRANK P/N D60-2757-11-00-01 INSTALLED. NO FURTHER ACTION REQUIRED. WORK PERFORMED WITH REFERENCE TO GMBH MSB42NG-066/1.

**** ITEM # 13548-6 COMPLY WITH FAA AD 2021-22-03 DIAMOND AI ****
DISCREPANCY: COMPLY WITH FAA AD 2021-22-03 DIAMOND AIRCRAFT INDUSTRIES GMBH, DETECT AND CORRECT CRACKS IN THE NLG ACTUATOR ATTACHMENT LEVER.
ACTION: COMPLIED WITH FAA AD 2021-22-03, ORIGINAL LEG ASSY HAS 912.7 HOURS TIS. INSPECTION REQUIREMENTS START AT 1800 HOURS TIS AS PER PAR.(G). PERFORMED VISUAL INSPECTION OF AREA NOTED REGARDLESS IN ACCORDANCE WITH PAR.2 OF DAI MSB42NG-078 REV 1 DATED JANUARY 24, 2019.

**** ITEM # 13548-7 COMPLY WITH DIAMOND AIRCRAFT INDUSTRIES ****
DISCREPANCY: COMPLY WITH DIAMOND AIRCRAFT INDUSTRIES MSB42NG-082, CUT-OUT IN RUDDER GAP COVER.
ACTION: COMPLIED WITH DIAMOND AIRCRAFT INDUSTRIES GMBH MSB42NG-082. COVERS MATCHED TEMPLATES (PREVIOUSLY TRIMMED) INSTALLED COVERS AND CHECKED CLEARANCES 2MM MIN NOTED IN ACCORDANCE WITH DA42NG-082. OPERATIONAL CHECKED GOOD.

**** ITEM # 13548-8 COMPLY WITH DIAMOND AIRCRAFT INDUSTRIES ****

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DISCREPANCY: COMPLY WITH DIAMOND AIRCRAFT INDUSTRIES MSB42NG-094 REPLACEMENT OF THE MAIN LANDING GEAR AND NOSE LANDING GEAR RETAINING RINGS.
ACTION: COMPLIED WITH DIAMOND AIRCRAFT INDUSTRIES GMBH MSB42NG-094 DATED 11-FEB-2025. REPLACED MLG AND MLG FOLDING STAY PIVOT AND HOOK PIVOT PIN RETAINING RINGS. ALL WORK PERFORMED IN ACCORDANCE WITH DA42NG MSB42NG-094.

**** ITEM # 13548-9 L/H AND R/H NOSE BAGGAGE DOORS, FUSELAGE ****
DISCREPANCY: L/H AND R/H NOSE BAGGAGE DOORS, FUSELAGE MOUNTED PERIMETER SEALS DETACHED / DEBONDED
ACTION: REPLACED PERIMETER SEAL FOR L/H AND R/H NOSE BAGGAGE DOORS P/N 5391-29 QTY 8 FT. OPS CHECKED GOOD.

**** ITEM # 13548-11 L/H AND R/H PROPELLER SPINNER SCREW HEAD ****
DISCREPANCY: L/H AND R/H PROPELLER SPINNER SCREW HEADS WORN / CROSS ENLARGED - REPLACE SCREWS
ACTION: REMOVED AND REPLACED L/H AND R/H PROPELLER SPINNER ATTACH SCREWS AND WASHERS (REUSED 4 WASHERS) TORQUED TO 35 IN/LBS.

**** ITEM # 13548-12 L/H AND R/H WING TIE DOWN RINGS, RUBBER ****
DISCREPANCY: L/H AND R/H WING TIE DOWN RINGS, RUBBER CUSHION WASHERS WORN / DRY CRACKING
ACTION: REMOVED AND REPLACED L/H AND R/H WING TIE DOWN RING RUBBER CUSHION WASHERS P/N 119328 QTY 2.

**** ITEM # 13548-13 SEVERAL WING / ENG NACELLE ACCESS PANELS ****
DISCREPANCY: SEVERAL WING / ENG NACELLE ACCESS PANEL SCREWS INCORRECT LENGTH / NYLON WASHERS WORN - REPLACE HARDWARE AS REQUIRED
ACTION: REMOVED AND REPLACED WORN WING AND NACELLE ACCESS PANEL SCREWS AND NYLON WASHERS.
QTY 115 WASHER, POLYIMID P/N DIN125A-M5X12-PA
QTY 1 BUTTON HEAD SCREW TORX25 P/N 15014583-M5X12-A2
QTY 16 BOLT HEX HEAD, SOCKET BUTTON HEAD P/N ISO73080-M5X16-A2
QTY 18 BOLT HEX, SOCKET BUTTON HEAD P/N ISO7380-M5X20-A2

**** ITEM # 13548-14 R/H WING, OUTB'D FLAP AND AILERON HINGES ****
DISCREPANCY: R/H WING, OUTB'D FLAP AND AILERON HINGES SEVERAL CLOSE OUT PLUGS MISSING (2 FLAP, 2 AILERON) REPLACE / INSTALL
ACTION: MOVED SERVICEABLE CLOSED OUT PLUGS FOR OUTB'D FLAP AND AILERON HINGES TO AILERON HINGES AND INSTALLED QTY 10 NEW P/N GPN320GL10 PLUG, KAPSTON (NEW STYLE) AT L/H AND R/H OUTBOARD FLAP HINGES.

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**** ITEM # 13548-15 COMPLY WITH DIAMOND AIRCRAFT INDUSTRIES ****

DISCREPANCY: COMPLY WITH DIAMOND AIRCRAFT INDUSTRIES MSB42NG-095, ACTIONS TO PREVENT PASSENGER DOOR SEPERATION

ACTION: COMPLIED WITH DIAMOND MSB42NG-095 - INSPECTED DOOR HANDLES, LATCHES AND STOPS - NO DEFECTS NOTED. INSTALLED PLACARDS ON INTERIOR DOOR HANDLES. WORK PERFORMED IN ACCORDANCE WITH DIAMOND WORK INSTRUCTIONS. WI-MSB42NG-095.

**** ITEM # 13548-16 L/H OUTB'D FLAP, INB'D STOP BUMPER MISSI ****

DISCREPANCY: L/H OUTB'D FLAP, INB'D STOP BUMPER MISSING AT NACELLE LOWER SURFACE

ACTION: INSTALLED FLAP BUMPER 1 PLY 20MM X 30MM OF BULK RUBBER STOCK P/N J-5816 (DIAMOND). OPS CHECKED GOOD.

**** ITEM # 13548-17 ANTI-CORROSION COATING WORN THIN ON SEVE ****

DISCREPANCY: ANTI-CORROSION COATING WORN THIN ON SEVERAL EXTERIOR COMPONENTS - SEE 12-30-00 - FLAP HORN ROD ENDS, ENTRY STEP HARDWARE...

ACTION: APPLIED ANTI-CORROSION COATING AS NEEDED ON SEVERAL EXTERIOR COMPONENTS IN ACCORDANCE WITH DIAMOND DA42NG AMM 12-30-00.

**** ITEM # 13548-18 RUDDER TRIM TAB / CONTROL ROD ATTACH HAR ****

DISCREPANCY: RUDDER TRIM TAB / CONTROL ROD ATTACH HARDWARE CORROSION / SEIZED AT SPHERIAL BEARINGS - REPALCE

ACTION: REMOVED RUDDER TRIM TAB CONTROL RODS ATTACH HARDWARE AND REPLACED WITH NEW BOLTS P/N LN9037-M5X18 QTY 2, NUTS P/N DIN985-M5-A2 QTY 2. REPLACED BEARING FOR TOP ROD - AFT END P/N BN34-5 QTY 1. OPERATIONAL CHECKED GOOD. WORK PERFORMED IN ACCORDANCE WITH DIAMOND DA42NG AMM 27-20-00.

**** ITEM # 13548-20 SEVERAL INTERIOR PLACARDS MISSING - INST ****

DISCREPANCY: SEVERAL INTERIOR PLACARDS MISSING - INSTALL NEW - PLACRAD REQ, PLACARD LIMITS

ACTION: NO ACTION TAKEN - INTERIOR PLACARDS ARE CORRECT

**** ITEM # 13548-21 EMERGENCY BATTERY PACK / POWER SUPPLY ****

DISCREPANCY: EMERGENCY BATTERY PACK / POWER SUPPLY TWO YEAR TIME CHANGE DUE CH 5-10-00 CH 24

ACTION: REPLACED CELLS FOR STANDBY BATTERY PACK P/N CR123A QTY 10. OPS CHECKED GOOD. WORK PERFORMED IN ACCORDANCE WITH DIAMOND DA42NG AMM 24-32-00.

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**** ITEM # 13548-22 ECU BACK UP BATTERIES DUE TIME CHANGE ****

DISCREPANCY: ECU BACK UP BATTERIES DUE TIME CHANGE 1 YEAR +/- 30 DAYS

ACTION: REPLACED ECU BACK UP BATTERIES P/N DAI-9024-30-02 QTY 4 IN ACCORDANCE WITH DA42NG AMM 24-30-00 PAR. 4.

**** ITEM # 13548-23 PERFORM ELT SYSTEM, COMPONENT TIME LIMIT ****

DISCREPANCY: PERFORM ELT SYSTEM, COMPONENT TIME LIMIT TEST

ACTION: REMOVED ELT OROLIA KANNAD ELT AF INTEGRA P/N 51851501-02 AMDT: F S/N LX1101068543 HEX ID: ADC6498A65DCE91. BATTERY P/N 0141823J. COSPAS SARTSAR NUMBER (CSN) 445330 EXP DATE: 02/2026. ELT TESTED ON AERO FLEX IFR 4000 NAV/COMM TEST SET AND PASSED, ALSO G SWITCH TESTED AND PASSED. INSTALLED IN AIRCRAFT. INSPECTED IN ACCORDANCE WITH FAR 91.207(D) AND PASSED.

**** ITEM # 13548-24 L/H MLG TIRE FLAT SPOTTED - REPLACE ****

DISCREPANCY: L/H MLG TIRE FLAT SPOTTED - REPLACE

ACTION: REMOVED L/H WHEEL / TIRE ASSY. REMOVED TIRE P/N 070-449-0 S/N 1095T00188. INSTALLED NEW TIRE P/N 070-449-0 S/N 2229T00152 AND NEW TUBE P/N RF6005. INSTALLED NEW LOCK NUTS P/N MS21042-4 QTY 3. SERVICED TIRE WITH NITROGEN AND LEAK CHECKED - NO LEAKS NOTED. INSTALLED WHEEL / TIRE ASSY TO AIRCRAFT. INSTALLED NEW AXEL NUT COTTER PIN P/N DIN94-4XX60-A2 COTTER PIN. WORK PERFORMED IN ACCORDANCE WITH DA42NG AMM 32-40.

**** ITEM # 13548-25 NLG TIRE TREAD DEPTH LOW - REPLACE? ****

DISCREPANCY: NLG TIRE TREAD DEPTH LOW - REPLACE?

ACTION: DEFLATE TIRE AND DISASSEMBLE WHEEL, REPLACED TIRE WITH NEW GOODYEAR FLIGHT SPECIAL II 5.00-5 10 PLY P/N 505C01-2 S/N 42201495, NEW TUBE MICHELIN P/N 097-908-0 5.00-5 LOT 15/2024, GROMMET P/N 217-00100, 3 BOLTS P/N AN4-22A, 6 WASHERS P/N AN960-416, 3 NUTS P/N MS21042-4. TIRE SERVICED WITH NITROGEN TO 88 PSI POST INSTALLATION.

**** ITEM # 13548-27 L/H AND R/H COWLING EXHASUT DUCTS HAVE M ****

DISCREPANCY: L/H AND R/H COWLING EXHASUT DUCTS HAVE MINOR CHAFFING MARKS (WIRE EXPOSED AT OUTER SURFACE) (GEAR BOX COOLING)

ACTION: REPAIRED L/H AND R/H LOWER COWLING GEAR BOX COOLING SUPPLY DUCTS ON EXTERIOR WITH BLACK RTV TO COVER EXPOSED SUPPORT WIRE.

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**** ITEM # 13548-29 L/H AND R/H COWLING (R/H TOP), EXHAUST S ****
DISCREPANCY: L/H AND R/H COWLING (R/H TOP), EXHAUST SCOOP CHAFFING NACELLE SKIN AT CONTACT AREAS
ACTION: INSTALLED POLYETHYLENE TAPE 1" WIDTH X 12" LENGTH TOTAL AT CONTACT AREAS ON L/H AND R/H COWLINGS (R/H SIDE TOP) P/N 3M 5423 FOR CHAFFE PROTECTION.

**** ITEM # 13548-31 L/H RUDDER CABLE, FUSELAGE SEAT CABLE SE ****
DISCREPANCY: L/H RUDDER CABLE, FUSELAGE SECTION CABLE GUIDE TUBE DETACHED AT REAR BULKHEAD IN CABIN, CRIMP BAND HANGING ON CABLE
ACTION: RESET CRIMP BAND FOR L/H AFT RUDDER CABLE GUIDE TUBE - OPS CHECKED GOOD.

**** ITEM # 13548-32 R/H INB'D FLAP HORN, INB'D AFT FAIRING S ****
DISCREPANCY: R/H INB'D FLAP HORN, INB'D AFT FAIRING SUPPORT BUSHING DETACHED - REPAIR
ACTION: CLEANED AND REATTACHED R/H INBOARD FLAP HORN FAIRING AFT SUPPORT BUSHINGS TO STRUCTURE WITH VHB TAPE P/N 59473PC AND REINSTALLED HORN FAIRING ASSY.

**** ITEM # 13548-33 L/H AILERON HORN FAIRING SUPPORT SPACERS ****
DISCREPANCY: L/H AILERON HORN FAIRING SUPPORT SPACERS DEBONDED - REPAIR, L/H OUTB'D FLAP FAIRING SUPPORT SPACERS DEBONDED
ACTION: CLEANED AND REINSTALLED L/H AILERON HORN FAIRING SUPPORT SPACERS TO STRUCTURE WITH VHB TAPE P/N 59473PC AND REINSTALLED FAIRING ASSY.
CLEANED AND REINSTALLED L/H OUTB'D FLAP HORN FAIRING SUPPORT SPACERS TO STRUCTURE WITH VHB TAPE P/N 59473PC AND REINSTALLED FAIRING ASSY.

**** ITEM # 13548-34 L/H AND R/H FUEL COOLERS, AFT ISOLATOR M ****
DISCREPANCY: L/H AND R/H FUEL COOLERS, AFT ISOLATOR MOUNTS TORN / TEARING AND R/H COOLER INB'D SEAL DEBONDING - REPLACE PARTS - CLEAN COOLERS, MINOR DEBRIS
ACTION: REPLACED AFT ISOLATOR MOUNTS FOR L/H AND R/H FUEL COOLERS P/N D64-7306-10-01 WITH NEW ATTACH NUTS P/N DIN985-M6-A2 QTY 2. REPLACED FOAM SEAL FOR R/H ENGINE FUEL COOLER P/N 188DT1200506 QTY 6". OPS CHECKED GOOD.

**** ITEM # 13548-35 SEVERAL INB'D WING STALL STRIPS BENT AT ****
DISCREPANCY: SEVERAL INB'D WING STALL STRIPS BENT AT TRAILING EDGE (L/H INB'D, R/H CENTER X2)
ACTION: CAREFULLY STRAIGHTENED BENT STALL STRIPS ON L/H AND R/H WINGS.

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**** ITEM # 13548-37 R/H MAIN WHEEL ASSY REPLACE BEARING CONE ****
DISCREPANCY: R/H MAIN WHEEL ASSY REPLACE BEARING CONES, CUPS, BEARINGS AND SEALS
ACTION: REMOVED R/H WHEEL / TIRE ASSY, DISASSEMBLE, REMOVE BOTH BEARING CUPS, INSTALL NEW BEARING CUPS P/N 214-00100 AND ASSEMBLE WHEEL WITH ORIGINAL BOLTS AND NEW P/N AN960-516 WASHERS AND P/N MS21044-N5 NUTS. CLEANED AND GREASED NEW BEARING CONES P/N 214-00200. ASSEMBLED WHEEL / TIRE ON AIRCRAFT WITH ORIGINAL RING GREASE SEALS. INSTALLED NEW AXLE NUT COTTERPIN P/N DIN94-4X60-A2. ALL WORK DONE IN ACCORDANCE WITH KAMAN MANUAL AWBCMM0001-30/USA SECTION 300 PGS 317-326 AND DIAMOND DA42NG AMM 32-40-00.

**** ITEM # 13548-38 L/H AND R/H BRAKE CALIPERS WEAPING ****
DISCREPANCY: L/H AND R/H BRAKE CALIPERS WEAPING
ACTION: REMOVED CALIPERS L/H AND R/H AND REMOVED PUCK'S AND O-RINGS, CLEANED, REPLACED O-RINGS P/N MS58775-222 AND FILLED CALIPER WITH 5606. INSTALLED PUCKS AND INSTALL ON AIRCRAFT AND CONNECTED BRAKE HOSE. BLED L/H AND R/H BRAKE SYSTEM AND SERVICED RESERVOIRS WITH MIL-PRF-5606H HYDRAULIC FLUID.

**** ITEM # 13548-39 AMEREX PORTABLE FIRE EXTINGUISHER DUE FO ****
DISCREPANCY: AMEREX PORTABLE FIRE EXTINGUISHER DUE FOR 6 YEAR OVERHAUL
ACTION: REMOVED CABIN FIRE EXTINGUISHER AMEREX A620T (2019) OHV DUE 6/27/2025 S/N F-66119500 AND INSTALLED NEW H3R AMEREX A344 (2025 S/N I-48489638 WEIGHT 2 LBS 8 OUNCES. INSTALLED 3/27/2025 IN ACCORDANCE WITH DAI AMM-TR-MAM 42-1265 DATED 19APR2023. INSTALLED FIRE EXTINGUISHER MOUNT WITH NEW BOLTS QTY 2 LN9037-M6X16 AND NEW LOCK NUTS QTY 2 P/N DIN985-M6-A2.

**** ITEM # 13548-40 BONDING JUMPER BROEKN AT AFT END OF STEE ****
DISCREPANCY: BONDING JUMPER BROEKN AT AFT END OF STEERING ROD
ACTION: REPLACED BONDING JUMPER P/N BWI-B14-RB8-RB6-100 QTY 1. OPS CHECKED GOOD. WORK PERFORMED IN ACCORDANCE WITH DA42NG AMM 35-50-00 SECTION 2. AT AFT END OF STEERING CONTROL ROD.

**** ITEM # 13548-42 L/H MLG W.O.W. SWITCH COVER DAMAGED, SCR ****
DISCREPANCY: L/H MLG W.O.W. SWITCH COVER DAMAGED, SCRATCHED, DENTED, OUTB'D MOUNT HOLE TORN - REPLACE
ACTION: REMOVED AND REPLACED L/H MLG WEIGHT ON WHEELS SWITCH COVER ASSY P/N D67-3211-80-00.

**** ITEM # 13548-43 L/H CABIN ENTRY STEP ANTI-SKID TAPE PEEL ****

| UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION-FEDERAL AVIATION ADMINISTRATION SPECIAL AIRWORTHINESS CERTIFICATE | | | |
|---|----------------|---|--|
| CATEGORY/DESIGNATION Special Flight Permit | | | |
| PURPOSE Ferry flight for repairs, alterations, maintenance, or storage | | | |
| MANU- FACTURER | NAME N/A | | |
| | ADDRESS N/A | | |
| FLIGHT | FROM KRDG | | |
| | TO KRUG | | |
| N421BL | MODEL DA 42 NG | SERIAL NO. 42.N388 | |
| BUILDER DIAMOND AIRCRAFT IND GMBH | | DATE OF ISSUANCE 29/May/2025 | |
| Unless sooner surrendered, suspended, revoked, or the termination date of 09/Jun/2025, this airworthiness certificate is effective under the conditions prescribed in 14 CFR, Part 21, Section 21.181 or 21.217. | | | |
| SIGNATURE OF FAA REPRESENTATIVE | | DESIGNATION OR OFFICE NO | |
| CHARLES DALE | | AFG-700-EASD05 | |
| MILLER | | Digitally signed by CHARLES DALE MILLER Date: 2025.05.29 08:13:21 -04'00' | |
| This airworthiness certificate is issued under the authority of Title 49 United States Code 44704 and Title 14 Code of Federal Regulations. Any alteration, misuse or reproduction for a fraudulent purpose of this certificate may be punishable by the certificate revocation, fine and/or imprisonment. THIS PORTION OF THE CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT PER THE APPLICABLE REGULATIONS | | | |

--Conditions and Limitations--

This aircraft does not meet the airworthiness standards of Annex 8 to the Convention on International Civil Aviation. Operations in airspace outside of the United States will require the permission of the applicable foreign authority. That permission must be carried aboard the aircraft together with this U.S. airworthiness certificate and, upon request, be made available to an FAA inspector or the applicable foreign authority in the country of operation.

Operations may be further restricted by the applicable foreign authority. This may include not allowing use of an airport, requiring specific routing, and

Section 1: Airframe Log

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

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

ALTIMETER CERTIFIED TO

| LEFT | FEET | RIGHT | FEET |
|-------|-----------|------------|-------------------|
| | 20,000 | | 20,000 |
| S/N: | 455002158 | S/N: | 478579 |
| DATE: | 6-30-2025 | W/O | 12423 |
| | | INSPECTOR: | Richard Ellington |

N421BL 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 # | MAKE: | MODEL: | S/N: |
|---------------|--------|---------|---------|
| #1 | Garmin | GTX345R | 3EH0264 |
| #2 | | | |

DATE: 6-30-2025 W/O: 12423 INSPECTOR: Richard Ellington

N421BL CAROLINA AVIONICS GROUP, LLC
 FAA APPROVED REPAIR STATION # QCCR-389K

READING & NORTHERN AVIATION 223 WEST APRON DRIVE
 LOG ID# 2904 01-July-2025 WO# 13548 AC TT 914.8
 N421BL S/N 42.N388 DA 42 NG TACH 914.8

I CERTIFY THAT THIS AIRCRAFT HAS BEEN INSPECTED IN DETERMINED TO BE IN AN AIRWORTHY CONDITION.

Peter T. Collins
 A+P3557961IA PETER COLLINS

01-JUL-
 Date

PAGE
 TOTALS

N421BL
 CAROLINA AVIONICS GROUP, LLC
 FAA Approved repair station QCCR389K
 Altimeter Scale Error
 Correction Card

| TEST PT(FT) | Indicator Reading at +25c | TEST | Indicator Reading at +25c |
|-------------|---------------------------|--------|---------------------------|
| -1,000 | -1000 | 30,000 | |
| 0 | 0 | 35,000 | |
| 500 | 500 | 40,000 | |
| 1,000 | 1000 | 45,000 | |
| 1,500 | 1500 | 50,000 | |
| 2,000 | 2000 | 55,000 | |
| 3,000 | 3000 | 60,000 | |
| 4,000 | 4010 | 70,000 | |
| 6,000 | 6010 | 80,000 | |
| 8,000 | 8020 | | |
| 10,000 | 10020 | | |
| 12,000 | 12020 | | |
| 14,000 | 14020 | | |
| 16,000 | 16020 | | |
| 18,000 | 18000 | | |
| 20,000 | 20000 | | |
| 22,000 | | | |
| 25,000 | | | |

Altitude Position
 Pilot ☐
 Copilot ☒

ALT. S/N 478579
 DATE 6-30-25

DOC# EOC123

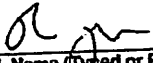
N421BL
 CAROLINA AVIONICS GROUP, LLC
 FAA Approved repair station QCCR389K
 Altimeter Scale Error
 Correction Card

| TEST PT(FT) | Indicator Reading at +25c | TEST | Indicator Reading at +25c |
|-------------|---------------------------|--------|---------------------------|
| -1,000 | -1010 | 30,000 | |
| 0 | -10 | 35,000 | |
| 500 | 490 | 40,000 | |
| 1,000 | 990 | 45,000 | |
| 1,500 | 1480 | 50,000 | |
| 2,000 | 1990 | 55,000 | |
| 3,000 | 2990 | 60,000 | |
| 4,000 | 3990 | 70,000 | |
| 6,000 | 5990 | 80,000 | |
| 8,000 | 7980 | | |
| 10,000 | 9980 | | |
| 12,000 | 11980 | | |
| 14,000 | 13980 | | |
| 16,000 | 15980 | | |
| 18,000 | 17980 | | |
| 20,000 | 19980 | | |
| 22,000 | | | |
| 25,000 | | | |

Altitude Position
 Pilot ☒
 Copilot ☐

ALT. S/N 455002158
 DATE 6-30-25

DOC# EOC123

| | | | | | | |
|--|-----------------|---|---|---|--------------------------------------|--|
| 1. Approving Civil Aviation Authority/Country: FAA / UNITED STATES | | 2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG | | | 3. Form Tracking Number: 33105-26 | |
| 4. Organization Name and Address: Concorde Battery Corporation 2009 San Bernardino Rd. West Covina, CA 91790 | | | | PAH No.: PQ1174NM & PT1174NM | | |
| 5. Work Order/Contract/Invoice Number: 66190-01 | | 11. Status/Work: | | | | |
| 6. Item: | 7. Description: | 8. Part Number: | 9. Quantity: | 10. Serial Number: | 11. Status/Work: | |
| 2 | Battery | RG24-15H | 25 | 41465172-41465183 41465185-41465188 41465553, 41465557 41465558-41465564 | Now | |
| 12. Remarks: This PMA & TSO part is not a critical component. (Cross check eligibility at www.concordebattery.com) TSO-C173a | | | | | | |
| 13a. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12. | | | 14a. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. | | | |
| 13b. Authorized Signature:  | | 13c. Approval/Authorization No.: 844651376 | | 14b. Authorized Signature: | | |
| 13d. Name (Typed or Printed): Ryan Hollett | | 13e. Date (dd/mm/yyyy): 20 AUG 2025 | | 14c. Approval/Certificate No.: | | |
| 14d. Name (Typed or Printed): | | 14e. Date (dd/mm/yyyy): | | | | |

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country

8-12-25 Hobbs: 1376.3 DIAMOND DA42NG
N421BL

REPAIR G1000 NXI Alert 'STALL HEAT FAIL' by
VERIFY STALL HEAT to be working and Replace
Shunt RESISTOR between terminals NO. 1 & 3 on
Drawing 664-9230-30-01 and Ramp test OK.

LANCASTER AVIATION, INC.
LANCASTER AIRPORT
LITITZ, PA 17543

DATE 8-12-25
CERTIFICATE NO. 1471201N

REF. WFO 28917

SIGNED

James [Signature]

Reading Jet Maintenance, LLC 223 WEST APRON DRIVE HANGAR #3 Reading, PA 19605 CRS# 5RJR738B
LOG ID# 2906 14-October-2025 WO# 13577 REF# 13577 AC TT 921.2
N421BL S/M 42.N388 DA 42 NG

Pg 1 / 1

**** ITEM # 13577-1 ALTERNATORS WON'T PARALLEL ****

DISCREPANCY: ALTERNATORS WON'T PARALLEL

L/H ALTERNATOR CONTACTOR NOT CLOSING, L/H ALTERNATOR SWITCH DEFECTIVE. POOR SOLDER CONNECTIONS ON BOTH ALTERNATOR SWITCHES

ACTION: REMOVED AND REPLACED L/H AND R/H ALTERNATOR CONTROL SWITCHES. OPERATIONAL CHECKED GOOD AT ENGINE RUN, AMPS WITH IN 1 AMP DIFFERENCE, 27 V INDICATED.

**** ITEM # 13577-2 L/H ENGINE GLOW PLUGS NOT WORKING ****

DISCREPANCY: L/H ENGINE GLOW PLUGS NOT WORKING

NO POWER NOTED AT GLOW PLUG FUSE (35AMP CURRENT LIMITER) ALTERNATOR SIDE OF CONTACTOR L/H ALTERNATOR SWITCH NOT CLOSING CONTACTOR, FAULTY SWITCH

ACTION: REMOVED AND REPLACED L/H ALTERNATOR CONTROL SWITCH (TASK #1), OPERATIONAL CHECKED GOOD AT ENGINE RUN.

**** ITEM # 13577-3 REPLACE BATTERY ****

DISCREPANCY: REPLACE BATTERY

ACTION: REMOVED MAIN BATTERY P/N RG24-15M S/N 41011465. INSTALLED NEW BATTERY P/N RG24-15M S/N 41465558. WORK PERFORMED IN ACCORDANCE WITH DA-42NG AMM 24-31-00.

2612026 NICK RICCIO

Date

10.14.2025