

AIRCRAFT S/N:
40.NC283

AIRCRAFT TECHNICAL RECORD

N642DZ

REGISTRATION

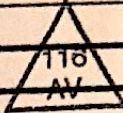
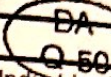
*Aero*TRANSPORT[®] Logbooks

www.aerotransport.com

AIRCRAFT TECHNICAL RECORD

Section 1. AIRFRAME LOG

CALIBRATION CARD

P/N: 5934PD-3		C/N: A.250	S/N: 523951	
Standard Alt (Ft)	Alt Reading (Ft) @ Room Temp	Standard Alt (Ft)	Alt Reading (Ft) @ Room Temp	
-1,000	-1010	14,000	13960	
0	-5	16,000	15965	
500	490	18,000	17980	
1,000	1005	20,000	19920	
1,500	1495	22,000		
2,000	1995	25,000		
3,000	3000	30,000		
4,000	3995	35,000		
6,000	5995	40,000		
8,000	7980	45,000		
10,000	9970	50,000		
12,000	11960			
Date: NOV/03/2023		Tested By: 		Inspected By: 

Diamond Aircraft Industries
Reference QP-05-08-113

Copyright © AeroTRANSPORT® Publications MMX

ISBN 978-0-920406-40-3

Made in Canada

www.aerotransport.com

13-12325



W4

942610346 PO: 1021780 : 40-20076
ATP AIRCRAFT TECHNICAL LOG SECTION

AIRCRAFT

- | | |
|---|----------|
| 1. Nationality and Registration: | N642BL |
| 2. Manufacturer's designation: | DA 40 NG |
| 3. Manufacturer's Serial Number: | 40.NC283 |
| 4. Type Approval or Specification Number: | A47CE |
| 5. Date of Manufacture: | 2023 |
| 6. Aircraft Inspections cycle: | |



Section 1: Airframe Log



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

Registration: N642BL
AC Serial Number: 40.NC283
Engine Serial Number: E4-A-06714
Prop Serial Number: 231967
Airframe Total Time: 4.0 HRS

- Total Time Airframe Brought forward from Flight Test Journey Log (DAI - Form Q-157): 4.0 HRS

Compass Swing Performed:

- Date: DECEMBER 05 2023
- Next Due: DECEMBER 2024

FOR	N	30	60	E	120	150
STEER	360	029	060	088	119	151
FOR	S	210	240	W	300	330
STEER	180	208	235	266	298	330

- 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: NOVEMBER 21 2023
- Next Due: NOVEMBER 2025

Stand By Altimeter:

- Factory Test Date: NOVEMBER 03 2023
- Next Due: NOVEMBER 2025

- ATC Transponder & Altitude Reporting System(s) have been tested in accordance with CAR Standard 571, Appendix F and 14 CFR 91.217: & 91.413:

- Test Date: NOVEMBER 21 2023
- Next Due: NOVEMBER 2025
- Programmed Registration: N642BL
- Hex Code: N/A (U.S. Registration)

- The ELT was tested and inspected in accordance with CAR Standard 571, Appendix G and 14 CFR 91.207(d):

- Manufacturers Cert. date: 36/ 23 (VVV/YY)
- Installation Inspected: DECEMBER 04 2023
- Battery due: JANUARY 2029
- Next ELT inspection due: DECEMBER 2024
- ELT Programmed:
 - REG: N642BL
 - HEX: N/A
 - Country: 366 (USA)
 - Beacon ID: ADC64995299CE91

- Emergency Battery Pack: Replacement Due Date: NOVEMBER 2025

Garmin G1000 NXi Installation:

- Software System: 1669.12
- Checklist File: N/A
- Basemap Land 5.20
- SafeTaxi Data: 25-JAN-2024
- Terrain Data: 3.00
- Obstacle Data: Expires 25-JAN-2024
- Navigation Data: Expires 28-DEC-2023
- Apt Directory: Expires 25-JAN-2024
- ChartView Data: N/A
- FliteCharts Data: Expires 28-DEC-2023
- IFR/VFR charts: Date: 30-NOV-2023

 DA
Q8

Inspector

DEC 15 2023

Date

(Continued next page)



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

Registration: N642BL
 AC Serial Number: 40.NC283
 Engine Serial Number: E4-A-06714
 Prop Serial Number: 231967
 Airframe Total Time: 4.0 HRS

- Following limitations as per DA 40 AMM Chapter 4 (subject to change with revision):

Component	Hours	Years	Next Due:
Essential Bus	1000 +/- 50	-N/A-	1000 hrs
Pitot-Static System	1000	2 yrs.	1000 hrs or NOVEMBER 2025
Bonding System and Static Discharging System	1000 +/- 50	4 yrs. +/- 60 days	1000 hrs or NOVEMBER 2027
Emergency Battery Pack	-N/A-	2 yrs.	NOVEMBER 2025
ECU Backup Battery	-N/A-	1 yr. +/- 30 days	NOVEMBER 2024

- The following STC's are incorporated:
 - No STC's incorporated.
- THIS AIRCRAFT WAS INSPECTED FOR CONFORMITY TO APPLICABLE COMPANY RELEASED DOCUMENTS (DRAWINGS, SPECIFICATIONS, CONCESSIONS).
- I HEREBY CERTIFY THAT THIS AIRCRAFT CONFORMS TO FAA TYPE CERTIFICATE A47CE Rev No. 17, AND IS IN A FIT AND SAFE STATE FOR FLIGHT.
- Bi-weekly AWD check carried out to current revision 2023-25 all applicable AD's complied with, see attached.**
- The work described above was carried out in accordance with the applicable Standard of Airworthiness.
- For the latest and most applicable maintenance requirements, please refer to the Diamond Aircraft Maintenance Manual (AMM).

[Signature]
 DA
 Q 8
 Inspector

DEC 15 2023
 Date

(Intentionally left blank below this point)

U.S. Standard Airworthiness Certificate, issued:

(Date) DEC 19 2023, has been installed in the Aircraft on behalf of FAA Farmingdale/Saddle Brook MIDO Section AIR-8A5 on:

(Date) DEC 19 2023

(Print) R. Salton (Signature) *[Signature]*



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							



Aircraft Reg: N642BL
Work Order: S0074621

Date: December 27, 2023

AMO 161-93	Model	Make	SN	TSN:	4.0 Hrs.
Airframe	Diamond	DA40NG	40.NC283	TSN:	4.0 Hrs.
Engine	Austro	E4-A	E4-A-06714	TSN:	4.0 Hrs.
Propeller	MT	MTV-6-R/190-69	231967		

The following work was performed:

- G1000 databases updated as required.
- LH flap "no step" placard PN: DA4-1123-10-02 replaced.
- The following components were removed and reinstalled to facilitate cosmetic detailing:
 - Upper and lower engine cowlings
 - LH wing tip
 - LH flap

An independent inspection has been carried out on the flight controls affected by the work performed.

Signature: *[Handwritten Signature]*

ACA:



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

Signature: *[Handwritten Signature]*

ACA:



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

DATE: 09/02/2024 | DIAMOND DA 40 NG | S/N: 40.NC283 | REG: N642BL
TACH: . TTAF.

AIRCRAFT PASSENGER DOOR CAME OFF WHILE DEPARTING. FOUND DOOR HAD OPENED DURING ROTATION AND THE CARBON FIBER HINGES BROKE. PERFORMED INSPECTION AND FOUND NO DAMAGE TO THE FUSELAGE. FOUND LATCHES TO BE IN WORKING ORDER. DUE TO LATCHES NOT BEING CLOSED DOOR CAME OPEN AND DAMAGED THE BREAK AWAY HINGES SECURED DOOR INLINE WITH FUSELAGE WITH HIGH ADHESION AIRCRAFT QUALITY TAPE TO ENSURE LATCHES WERE FULLY ENGAGED TO HOLD DOOR IN PLACE.

I CERTIFY THAT THIS AIRFRAME HAS BEEN INSPECTED WAS DETERMINED TO BE IN CONDITION FOR SAFE FLIGHT.

[Handwritten Signature]
GLENN LAWLER

A&P 2151929

PAGE TOTALS									
-------------	--	--	--	--	--	--	--	--	--

CARRY FORWARD to Top of Next Page

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



DATE: SEPTEMBER 24, 2024 | DIAMOND AIRCRAFT | DA-40-NG | S/N: 40.NC283 | REG: N642BL
TACH: 83.1 HRS. TTAF: 83.1HRS.

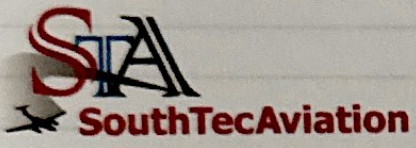
- REPLACED REAR DOOR ASSEMBLY WITH PART FROM DIAMOND AIRCRAFT CHECKED OPERATION GOOD. P/N: DA4-5221-00-00_04 S/N: RC2407964.
- REPLACED REAR DOOR LIFT GAS STRUT P/N: DAI-9052-00-11.

ALL WORK PERFORMED IAW DA-40-NG MAINTENANCE MANUAL. THIS AIRCRAFT APPROVED FOR RETURN TO SERVICE.

Luke Walters
LUKE WALTERS

A&P 4778771

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



DATE: SEPTEMBER 27, 2024 | DIAMOND AIRCRAFT | DA-40-NG | S/N: 40.NC283 | REG: N642BL
TACH: 83.1 HRS. TTAF: 83.1HRS.

- REMOVED DAMAGED HORIZONTAL STAB LEFT TIP FOR MINOR REPAIR. REPAIRED IN ACCORDANCE WITH DIAMOND AIRCRAFT MAINTENANCE MANUAL CHAPTER 51. PAINTED TO MATCH WITH ACRYLIC URETHANE PAINT.
- REINSTALLED HORIZONTAL STAB LEFT TIP.

ALL WORK PERFORMED IAW DA-40-NG MAINTENANCE MANUAL. THIS AIRCRAFT APPROVED FOR RETURN TO SERVICE.

Luke Walters
LUKE WALTERS

A&P 4778771



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

DATE: JANUARY 15, 2025 | DIAMOND DA40 NG | S/N: 40.NC283 | REG: N642BL
TACH: 125.7 HRS. TTAF: 125.7 HRS.

ANNUAL INSPECTION COMPLETED THIS DATE USING DIAMOND AIRCRAFT DA40 NG INSPECTION CHECKLIST AND AIRPLANE MAINTENANCE MANUAL.

CHECKED AD'S THROUGH 2025-07

AD 16-23-03 TURBOCHARGER V-CLAMP MANUFACTURING DEFICIENCY, INSPECTED TURBO V-CLAMP IAW WI-MSB-046 DATED 01-FEB-2017. NO DEFECTS NOTED. NEXT DUE @ TACH: 225.7

1. ELT TESTED IN ACCORDANCE WITH CFR 91.207(D), BATTERY EXP: 1/2029.
2. REPLACED EMERGENCY BACK UP BATTERY, P/N:(DA4-2560-91-00). EXP: 1/2027.
3. REMOVED AND REPLACED ECU BACKUP BATTERIES, P/N:(NP7-12) 2 EA.
4. REMOVED GTX345R P/N 011-03303-00 S/N 3EH003832 FOR OVERHAUL, REINSTALLED GTX345R P/N 011-03303-00 S/N 3EH003832.
5. REMOVED ARTIFICIAL HORIZON P/N 4300-206 S/N J07-10172 FOR OVERHAUL. REINSTALLED ARTIFICIAL HORIZON AFTER OVERHAUL.

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

Timothy D Jordan
TIMOTHY D JORDAN

A&P/IA 3264477



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

DATE: SEPTEMBER 22, 2025 | MAKE/MODEL: DIAMOND DA40NG | REG: N642BL | ACFT SN: 40.NC283
TACH: 240.7 HRS. TTE: 240.7

-REPLACED LH AND RH MAIN LANDING GEAR TIRES AND TUBES, TIRE PN: GOODYEAR FLIGHT SPECIAL II 156E61-3, TUBE PN: GL-1520B
-REPLACED LH AND RH BRAKE LININGS PN: RA66-141.
ALL WORK PERFORMED IAW A CURRENT DIAMOND

I CERTIFY THAT THIS AIRCRAFT HAS BEEN SERVICED IN ACCORDANCE WITH A CURRENT DIAMOND DA40NG CHAPTER 32-40 AMM AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

Scot Seamon *Scot Seamon*

AP 3581287

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

Make: Diamond
Model: DA40NG
Serial #: 40.NC283

TRIANGLE AVIONICS L.L.C. →

Tach: --
Hobbs: 405.6
Reg #: N642DZ

Changed tail number in GTX 345R and G1000 to match new tail number N642DZ
IAW Garmin line maintenance manual 190-02361-00 Rev 2.

I certify the below transponder(s) has(have) been inspected and found to comply with
the requirements and tests required by § 91.413, and found to comply with 14 CFR
part 43, appendix F. Data correspondence checked to Field Elevation.

#1 Transponder: Garmin GTX 345 SN: 3EH003831

The aircraft or component identified was repaired in accordance with current
Federal Aviation Administration Regulations and was found airworthy for return to
service, with respect to work performed. Details of the work performed are
included in work order 2209 on file at Repair Station No. 5R9R534D.

Signed: [Signature]
For CRS #5R9R534D

Date: 11/24/2025

Replaced tail numbers on left +
right of fuselage with FAA compliant
~~bracket~~ vinyl stickers. Work performed
by Mark Coyne of Arapella Aviation, LLC
(owner) on November 24th 2025.
Old tail number N642BL, new tail
number N642DZ

[Signature]
11/24/25

Section 1: Airframe Log

AIRFRAME (ANNUAL)



Take Flight Aviation
49 Hangar Rd Montgomery NY, 12535
845-457-4111

N642DZ **Diamond DA40NG S/N: 40.NC283** **January 16, 2026**
Tach: 276.5 ACTT: 276.5

1. Performed Annual inspection checklist I/A/W 14 CFR, part 43, Appendix D, using Diamond DA40-NG Aircraft Maintenance Manual. Installed P/N E4A-52-000 - kit-100 hour.
2. All access panels opened, aircraft placed on jacks.
3. Lubricated all flight controls, and checked control cable tensions.
4. Removed wheel assemblies for inspection.
5. Inspected and reinstalled wheel bearing.
6. ELT inspected and tested I/A/W FAR 91.207 (d). ELT P/N: A3-06-2749-1 S/N: 323-06884 Battery P/N: 452-6504-1 S/N: 1003803-019 Exp: 1/2029.
7. Main battery removed, serviced, charged, and reinstalled. Inspected ECU backup batteries as required.
8. All routine service items performed.
9. All applicable ADs checked bi-weekly thru this date.
10. Removed and replaced ECU back up batteries with new as required. Installed (2) P/N NP7-12 - Battery, Sealed, Lead-Acid 12V 7Ah.
11. Cleaned connections on flap indicator light bulbs and reseated as required.
12. Tightened connections on both pilots and co-pilots seat back pistons as required to remove excessive movement.
13. Removed and replaced nose gear fork bushings with new as required. Installed (2) P/N D44-3223-30-30 - NLG Fork Collar Bush.
14. Removed and replaced nose wheel stop travel plate with new as required. Installed P/N D41-3223-00-51 - NLG Stop.
15. Removed and replaced cabin heat charge hose with new as required. Installed P/N D44-2146-20-00_2 - Heat Exchanger Duct Assy.
16. Removed and replaced Garmin back up battery with new as required. Installed P/N DA4-2560-91-00 - EMERGENCY BATTERY PACK.
17. Removed air conditioning system from aircraft and serviced with fresh coolant and oil as required. Installed P/N R-134 - Refrigerant.

I certify that this airframe was inspected in accordance with an Annual Inspection at Take Flight Aviation, LLC., and that this airframe has been determined airworthy and approved for return to service.

James T. Markey
James T. Markey 31668721A

Make: Diamond
Model: DA40NG
Serial #: 40.NC283

TRIANGLE AVIONICS LLC

Tach: --
Hobbs: 428.2
Reg #: N642DZ

I certify that the altimeter and static system, and altitude reporting system tests required by 14 CFR part 91, § 91.411 and transponder tests required by § 91.413, have been performed and found to comply with 14 CFR part 43, appendices E and F. Units were certified to 20000 feet.

Altimeter Make/Model: Garmin GDC Serial No.: 455100371
Altimeter Make/Model: United Instruments 5934PD-3 Serial No.: 523951
Transponder Make/Model: Garmin GTX 345R Serial No.: 3EH003831

The aircraft or component identified was repaired in accordance with current Federal Aviation Administration Regulations and was found airworthy for return to service, with respect to work performed. Details of the work performed are included in work order 2333 on file at Repair Station No. 5R9R534D.

PAG
TOTA

Signed: *[Signature]*
For CRS #5R9R534D

Date: 3/11/2026

AIRCRAFT TECHNICAL RECORD

Section 2. INSTALLATIONS & MODIFICATIONS LOG

Copyright © *Aero*TRANSPORT® Publications MMVII

ISBN 978-0-920406-41-0

Made in Canada

www.aertransport.com

13-12326



W4

942620235 PO: 1075069 : 40-20203
ATP AIRCRAFT TECHNICAL LOG SECTION

INSTALLATIONS & MODIFICATIONS

1. Nationality and Registration: N642BL
2. Manufacturer's Designation: DA 40 NG
3. Record of:
 - a. Engine Installations
 - b. Propeller Installations
 - c. Airworthiness Directives (A/D)
 - d. Service Bulletins (S/B)
 - e. Special Inspections (S/I)
 - f. Modifications (MODS)



AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG

1. Approving Competent Authority / Country Austro Control GmbH Austria	2.	3. Form Tracking Number AE046980
4. Organisation Name and Address Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wr. Neustadt, AUSTRIA		5. Work Order / Contract / Invoice ES232691

**AUTHORISED RELEASE CERTIFICATE
EASA FORM 1**

6. Item	7. Description	8. Part No.	9. Quantity	10. Serial No.	11. Status / Work
1	Engine Configuration A	E4A-00-000-BHY Iss. 014	1	E4-A-06714	New

12. Remarks

General The engine conforms to the type design approved by Canadian Department of Transport Type Certificate IE-68.

General The engine complies with the applicable airworthiness directives.

Item 1 The engine conforms to EASA TCDS E.200 Issue 12; Damper assy P/N: D44-7306-30-00_1 (EASA Form 1: AJ81818)

Item 1 Fuel hose assy P/N: A24119-01 (EASA Form 1: 244318). Cleaned and installed acc. AE APA_Pulsationsdämpfer-Aufbau_190618.



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

approved design data and are in condition for safe operation

non-approved design data specified in block 12

14a. Part-145.A.50 Release to Service Other regulation specified in block 12

14. Certifies that unless otherwise specified in block 12 the work identified in block 11 and described in block 12 was accomplished in accordance with Part-145 and in respect to that work, the items are considered ready for release to service.

13b. Authorised Signature 	13c. Approval / Authorisation Number AT.21G.0010	14b. Authorised Signature	14c. Certificate / Approval Reference Number
13d. Name 	13e. Date (dd mmm yyyy) 13 OCT 2023	14d. Name	14e. Date (dd mmm yyyy)

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 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.

ENGINE LOG

- | | |
|----------------------------------|---------------------|
| 1. Make: | Austro Engines GmbH |
| 2. Model: | E4-A |
| 3. Specification: | E00081EN |
| 4. Manufacturer's Serial Number: | E4-A-06714 |
| 5. Date of Manufacture: | OCTOBER 13 2023 |
| 6. Aircraft Inspection Cycle: | |





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

ENCE:
E or
/ACA

DATE: OCTOBER 25, 2024 | MAKE/MODEL: AUSTRO E4-A | S/N: E4-A-06714 | REG: N642BL | ACFT SN: 40.NC283
TACH: 96.6 HRS. TTE: 96.6

- COMPLIED WITH MSB-E4-043/0, INSPECTED PISTON HEADS FOR CRACKS IN ACCORDANCE WITH WI-MSB-E4-043/0 DATED: 08/27/2024.
- REPLACED PARTS INCLUDED IN THE BORESCOPE KIT P/N: MSB-E4-043-KIT PROVIDED BY AUSTRO ENGINE GmbH.
- PERFORMED GROUND RUN OF ENGINE INCLUDING LIVE VIEW EECU TESTS UTILIZING AUSTRO AE300 SOFTWARE.
- CONDUCTED LEAK CHECKS DURING GROUND RUN; NO LEAKS OBSERVED.

I CERTIFY THAT THIS AIRCRAFT HAS BEEN SERVICED IN ACCORDANCE WITH WI-MSB-E4-043/0 (WORK INSTRUCTIONS), DIAMOND DA40 AND AUSTRO E4 SERIES MAINTENANCE MANUALS AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

Scot Seamon
Scot Seamon

AP 3581287



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

DATE: JANUARY 15, 2025 | AUSTRO E4-A | S/N: E4-A-06714 | REG: N642BL
TACH: 125.7 HRS. TTE: 125.7 HRS.

ANNUAL INSPECTION COMPLETED THIS DATE USING DIAMOND AIRCRAFT DA40 NG INSPECTION CHECKLIST, AIRPLANE MAINTENANCE MANUAL, AND AUSTRO MAINTENANCE MANUAL E4 SERIES.

NO AD'S DUE AT THIS TIME.

AD 20-14-07 TIMING CHAIN EXSESIVE WEAR AND FUEL INJECTOR FAILURES. **DUE AT TACH: 900.0 OR ANY WINDMILL RESTART.**

1. CUT OIL FILTER, NO METAL NOTED.
2. **COLLECTED OIL SAMPLE** FOR ANALYSIS AND SENT TO BLACKSTONE.
3. CHANGED OIL AND SERVICED ENGINE WITH 7 QTS OF AEROSHELL DIESEL ULTRA.
4. REPLACED OIL FILTER ORING, P/N: E4A-52-300-KIT
5. REPLACED FUEL FILTER, P/N:(WK724-3).

GROUND RAN ENGINE, NO FAULTS NOTED.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN 100 HOUR INSPECTION AND WAS DETERMINED TO BE AIRWORTHY CONDITION.

Timothy D Jordan
TIMOTHY D JORDAN

A&P/IA 3264477

Section 3A: Engine Service and Maintenance Log



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

DATE: MARCH 13, 2025 | AUSTRO ENGINE | S/N: E4-A-06714 | REG: N642BL
TACH: 144.6 HRS. TTE: 144.6 HRS.

-AD 24-19-10 COMPLIED WITH IN ACCORDANCE WITH AUSTRO MSB-E4-043/0 PISTON
BORESCOPE INSPECTION. PULLED INJECTOR COVER AND INJECTORS FOR ACCESS.
PERFORMED THOROUGH INSPECTION OF PISTON CROWN NO CRACKS FOUND AT THIS TIME.
USING KIT P/N: MSB-E4043-KIT REINSTALLED INJECTOR COVER AND INJECTORS. **NEXT DUE AT**
TACH 194.6 HRS ±10 FH.
-PERFORMED SATISFACTORY ENGINE RUN. NO FAULTS OR LEAKS NOTED.

ALL WORK PERFORMED I.A.W DA-40NG MAINTENANCE MANUAL AND AUSTRO E4 SERIES
MAINTENANCE MANUAL.

Luke Walters
LUKE C WALTERS

A&P 4778771



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

DATE: MAY 30, 2025 | MAKE/MODEL: AUSTRO E4-A | S/N: E4-A-06714 | REG: N642BL
TACH: 191.2 HRS TTE: 191.2 HRS

-COMPLIED WITH MSB-E4-043/0 AND AD 24-19-10, INSPECTED PISTON HEADS FOR CRACKS IAW WI-MSB-E4-043/0.
-REPLACED PARTS INCLUDED IN THE BORESCOPE KIT P/N: MSB-E4-043-KIT PROVIDED BY AUSTRO ENGINE GmbH.
-PERFORMED GROUND RUN OF ENGINE, NO DISCREPENCIES NOTED.
-CONDUCTED LEAK CHECKS AFTER GROUND RUN; NO LEAKS OBSERVED.
-NEXT DUE AT TACH ² ~~191.2~~ ^{YmJ} 191.2 HRS ± 10FH.

ALL WORK PERFORMED IN ACCORDANCE WITH DIAMOND DA-40 NG MAINTENANCE MANUAL, AUSTRO E4 SERIES
MAINTENANCE MANUAL AND MSB-E4-043/0.

YANLUIS MARTINEZ VAZQUEZ *YmJ*

AP 4990598



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

DATE: SEPTEMBER 22, 2025 | MAKE/MODEL: AUSTRO E4-A | S/N: E4-A-06714 | REG: N642BL | ACFT SN: 40.NC283
TACH: 240.7 HRS. TTE: 240.7

-COMPLIED WITH MSB-E4-043/0, INSPECTED PISTON HEADS FOR CRACKS IN ACCORDANCE WITH WI-MSB-E4-043/0 DATED: 08/27/2024.
-REPLACED PARTS INCLUDED IN THE BORESCOPE KIT P/N: MSB-E4-043-KIT PROVIDED BY AUSTRO ENGINE GmbH.
-PERFORMED GROUND RUN OF ENGINE INCLUDING LIVE VIEW EECU TESTS UTILIZING AUSTRO AE300 SOFTWARE.
-CONDUCTED LEAK CHECKS DURING GROUND RUN; NO LEAKS OBSERVED.


I CERTIFY THAT THIS ENGINE SN E4-A-06714 HAS BEEN SERVICED IN ACCORDANCE WITH WI-MSB-E4-043/0 (WORK INSTRUCTIONS), DIAMOND DA40 AND
AUSTRO E4 SERIES MAINTENANCE MANUALS AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

Scot Seamon *Scot Seamon*

AP 3581287

AIRCRAFT TECHNICAL RECORD

Section 4. PROPELLER LOG

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 Num Lfd. Nummer 4521/23
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 2010035524
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	MTV-Propeller Spinner Assembly	MTV-6-R/190-69 P-828	1	231967	"NEW"
2			1	N/A	"NEW"
<p>(1) This propeller conforms to its United States type design (Type Certificate no. P19NE) and is in a condition for safe operation (2) This propeller has been subjected by the manufacturer to a final operation check and is in a proper state for airworthiness. Reference FAR Section 21.500 which provides for the airworthiness acceptance of aircraft, engines or propellers manufactured outside the U.S. for which a U.S. type certificate has been issued. Additional guidance is contained in Advisory Circular 21-23, Airworthiness Certification of Civil Aircraft, Engines, Propellers and Products, imported into the United States.</p>					
12. Remarks Bemerkungen New Propeller Blades: 1: AOG-100771, 2: AOG-100772, 3: AOG-100773 Year of construction: 2023, TSN: 00:00 hrs. The propeller conforms with the EASA TCDS No. P.094, rev. 3 The propeller conforms to the FAA TCDS No. P19NE, rev. 8 The propeller identified by this Certificate has been examined and found to conform to the Canadian Department of Transport Type Certificate P-42, issue 3					
13a. Certifies that the items identified above were manufactured in conformity to: Bescheinigt, dass die oben angegebenen Artikel hergestellt wurden in Übereinstimmung mit:			<input type="checkbox"/> Part-145.A.50 Release to Service Teil-145.A.50 Freigabe <input type="checkbox"/> Other Regulation specified in block 12 Andere in Feld 12 angegebene Vorschrift		
<input checked="" type="checkbox"/> approved design data and are in a condition for safe operation genehmigten Konstruktionsdaten und sich in einem betriebssicheren Zustand befinden <input type="checkbox"/> non-approved design data specified in block 12 nicht genehmigten Konstruktionsdaten gemäß Angabe in Feld 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 Part 145 and in respect to that work the items are considered ready for release to service. Bescheinigt hiermit, dass, wenn in Feld 12 nichts anderes festgelegt ist, die in Feld 11 aufgeführte und in Feld 12 beschriebene Arbeit in Übereinstimmung mit Teil-145 durchgeführt wurde und dass der Artikel im Hinblick auf diese Arbeit für die Erteilung einer Freigabe geeignet ist.		
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 / Zulassung		
13d. Name Name Gregor Paisdzior	13e. Date (dd mmm yyyy) Datum (TT MMM JJJJ) 31 Oct 2023	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 issued 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 Einbaubescheinigung enthalten, die in Übereinstimmung mit den nationalen Vorschriften vom Benutzer/Ausrüster ausgestellt wurde, bevor ein Flug mit dem Luftfahrzeug durchgeführt werden darf.					

PROPELLER LOG

1. Make:	MT-Propeller Entwicklung GmbH
2. Model:	MTV-6-R/190-69
3. Specification Number:	P19NE
4. Date of Manufacture:	OCTOBER 31 2023
5. Hub Serial Number:	231967
6. Blades:	
a. Design Number:	
b. Blade Serial Numbers:	
i. :	AOG-100771
ii. :	AOG-100772
iii. :	AOG-100773
iv. :	
c. Pitch Setting	
i. Basic:	
ii. High:	
iii. Low:	
iv. Reverse:	
v.	



Section 4A: Propeller Service and Maintenance Record



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

Registration: N642BL
AC Serial Number: 40.NC283
Engine Serial Number: E4-A-06714
Prop Serial Number: 231967
Airframe Total Time: 4.0 HRS

- Total time Propeller Brought forward from Flight Test Journey Log (DAI - Form Q-157): 4.0 HRS
- Propeller installed new on DA 40 NG, S/N: 40.NC283
- Prop Dynamic Balance performed:
 - 16.1g located @ 355°
 - Balanced to 0.038 IPS
- Bi-weekly AWD check carried out to current revision 2023-25 all applicable AD's complied with, see attached.
- The work described above was carried out in accordance with the applicable Standard of Airworthiness.

[Signature]
Inspector

DEC 15 2023

Date

(Intentionally left blank below this point)



3330 AIRPORT LOOP
SALISBURY, NC 28147
OFFICE: 704-431-8862
INFO@SOUTHTECAVIATION.COM

DATE: JANUARY 15, 2025 | MT-PROPELLER | MODEL: MTV-6-R | S/N: 231967 | REG: N642BL
TACH: 125.7 HRS. TTP: 125.7 HRS. TSMOH: N/A

ANNUAL INSPECTION COMPLETED THIS DATE USING DIAMOND AIRCRAFT DA40 INSPECTION CHECKLIST, AIRPLANE MAINTENANCE MANUAL, AND HARTZELL MAINTENANCE MANUAL.

NO AD'S DUE AT THIS TIME.

I CERTIFY THAT THIS PROPELLER HAS BEEN INSPECTED IN ACCORDANCE WITH AN 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

[Signature]
TIMOTHY D JORDAN

A&P/IA 3264477

PROPELLER (ANNUAL)



Take Flight Aviation
49 Hangar Rd Montgomery NY, 12549
845-457-4188

N642DZ

Tach: 276.5

M&T 190-69 S/N: 231967

January 16, 2026

1. Performed annual propeller inspected I/A/W 14 CFR, part 43, Appendix D, using Diamond DA40-NG AMM and MT Propeller Maintenance Manual as reference.
2. All routine service items performed.
3. All applicable ADs checked bi-weekly thru this date.

I certify that this propeller has been inspected in accordance with an Annual Inspection at Take Flight Aviation, LLC., and that this propeller has been determined airworthy and is approved for service.

[Signature]
James T. Markey 31668724A

TOTAL
SINCE NEW

CARRY TOTALS FORWARD to Top of Next Page