

AIRCRAFT TECHNICAL RECORD

Section 1. AIRFRAME LOG

AIRCRAFT

- | | |
|---|----------|
| 1. Nationality and Registration: | N246SA |
| 2. Manufacturer's designation: | DA 40 NG |
| 3. Manufacturer's Serial Number: | 40.NC183 |
| 4. Type Approval or Specification Number: | A47CE |
| 5. Date of Manufacture: | 2022 |
| 6. Aircraft Inspections cycle: | |



Section 1: Airframe Log



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

Registration: N246SA
AC Serial Number: 40.NC183
Engine Serial Number: E4-A-06229
Prop Serial Number: 220111
Airframe Total Time: 3.2 HRS

- Total Time Airframe Brought forward from Flight Test Journey Log (DAI - Form Q-157): 3.2 HRS

- Compass Swing Performed:

- Date: MAY 02 2022
- Next Due: MAY 2023

| | | | | | | |
|-------|-----|-----|-----|-----|-----|-----|
| FOR | N | 30 | 60 | E | 120 | 150 |
| STEER | 360 | 031 | 061 | 091 | 123 | 152 |
| FOR | S | 210 | 240 | W | 300 | 330 |
| STEER | 181 | 210 | 239 | 269 | 299 | 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: APRIL 08 2022
 - Next Due: APRIL 2024
- Stand By Altimeter:
 - Factory Test Date: FEBRUARY 28 2022
 - Next Due: FEBRUARY 2024
- 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: MARCH 30 2022
 - Next Due: MARCH 2024
 - Programmed Registration: N246SA
 - 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: 42/21
 - Installation Inspected: MAY 03 2022
 - Battery due: JANUARY 2028
 - Next ELT inspection due: MAY 03 2023
 - ELT Programmed:
 - REG: N246SA
 - HEX: N/A
 - Country: 366 (USA)
 - Beacon ID: ADC64999295D381
- Emergency Battery Pack: Replacement Due Date: MARCH 2024
- Garmin G1000 NXi Installation:
 - Software System: 2978.11
 - Checklist File: N/A
 - Basemap Land 5.19
 - SafeTaxi Data: 19-MAY-2022
 - Terrain Data: 3.00
 - Obstacle Data: Expires 19-MAY-2022
 - Navigation Data: Expires 19-MAY-2022
 - Apt Directory: Expires 19-MAY-2022
 - ChartView Data: N/A
 - FliteCharts Data: Expires 19-MAY-2022
 - IFR/VFR charts: Date: 21-APR-2022


Inspector

MAY 05 2022
Date

(continued next page)



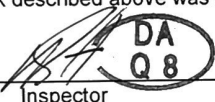
DIAMOND AIRCRAFT INDUSTRIES INC.
D.O.T. APPROVED MANUFACTURER #161-93

Registration: N246SA
AC Serial Number: 40.NC183
Engine Serial Number: E4-A-06229
Prop Serial Number: 220111
Airframe Total Time: 3.2 HRS

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

| Component | Hours | Years | Next Due: |
|------------------------|-------|-------|----------------------|
| Essential Bus | 1000 | -N/A- | 1000 hrs |
| Pitot-Static System | 1000 | 2 | 1000 hrs or APR 2024 |
| Bonding System | 1000 | -N/A- | 1000 hrs |
| Emergency Battery Pack | -N/A- | 2 | MARCH 2024 |
| ECU Backup Battery | -N/A- | 1 | MARCH 2023 |

- The following STC's are incorporated:
 - FAA STC No. SE03232CH (Tanis Engine Preheat Kit)
 - FAA STC No. SA03366NY (Beringer wheel and brake system)
- 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 2022-09 all applicable AD's complied with, see attached.
- The work described above was carried out IAW the applicable Standard of Airworthiness.


Inspector

MAY 05 2022
Date

(Intentionally left blank below this point)

U.S. Standard Airworthiness Certificate, issued:

(Date) MAY 06 2022, has been installed in the
Aircraft on behalf of FAA Farmingdale/Saddle Brook MIDO
Section AIR-8A5 on:

(Date) MAY 06 2022

(Print) L. B. YERUJO (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 | | | | | | | |



Registration:
Airframe Total Time

N246SA
3.2 Hrs

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

AC Serial Number:
Work Order:

40 NC183
SO073619

The Following Work Was Performed:

- LH/RH fuel cap lock barrel key ID mismatched. Replaced LH fuel cap lock barrel PN: LS3456 with key ID 621 to match RH key ID.
- Minor cosmetic repair carried out on instrument panel cover at LH canopy arm rebait. Instrument panel cover removed and reinstalled to facilitate paint repair.

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



Date: MAY 17 2022

END.



Registration:
Airframe Total Time:

N246SA
10.9 Hrs

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

AC Serial Number:
Work Order:

40 NC183
SO073719

The Following Work Was Performed:

- Fast-on terminals replaced at hobbs meter wire harness numbered 31100022 and 31101022.

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



Date: JUL 27 2022

PAGE
TOTALS

CARRY FORWARD to Top of Next Page

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

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

Registration: N246SA
Airframe Total Time: 11.9 Hrs

AC Serial Number: 40.NC183
Work Order: SO073719

The Following Work Was Performed:

- Hobbs meter replaced with new P/N: 85094-12.
- Forward portion of vinyl stripe replaced with new vinyl. Static port placard P/N: D60-1123-20-30, boarding step placard P/N: DA4-1123-10-11 and ground point placard P/N: DA4-1123-10-10 replaced to facilitate stripe replacement.
- LH wing gap seal re-bonded to wing surface.

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

ACA



Date:

AUG 15 2022

wo: WO_223



Steel Aviation · 53 North Street Ext · Phillipsburg, Ohio 45354 · 937 332 7587

April 21, 2023

DIAMOND AIRCRAFT IND INC, DA 40 NG, S/N: 40.NC183

N246SA

TACH: 39.4

1. C/W Annual Inspection I/A/W DIAMOND AMM 05-20-00.

2. C/W ELT Inspection IAW FAR 91.207(D) NDN.

3. C/W 12 month ECU A&B Back up battery replacement. I/A/W diamond AMM 24-31-00. Installed (2) P/N NP7-12 - 12V BATTERY, Batt 2, Diamond.

I certify that this AIRFRAME has been inspected in accordance with an (annual) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO_223.

Jeff Pleiman A/P I/A 3304319