

# AIRCRAFT TECHNICAL RECORD

## Section 3. ENGINE LOG

# Section 3A: Engine Service and Maintenance Log



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

Registration: N844LA  
AC Serial Number: 40.NC194  
Engine Serial Number: E4-A-06293  
Prop Serial Number: 220119  
Airframe Total Time: 3.5 HRS

- Total Time **Engine** Brought forward from Flight Test Journey Log (DAI - Form Q-157): 3.5 HRS
- Engine installed new on Aircraft DA 40 NG, S/N: 40.NC194
- Bi-weekly AWD check carried out to current revision 2022-14 all applicable AD's complied with, see attached.
- The work described above was carried out IAW the applicable Standard of Airworthiness.

DA  
Q 8

Inspector

JUL 14 2022

Date

(Intentionally left blank below this point)

ENGINE MODEL AE300  
ENGINE S/N E4-A-06293  
REG NO N844LA  
WORK ORDER 0673



Premier Aircraft Service, Inc.

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone 562 881 5345

DATE 9/24/2022  
A/C TSN 32.4  
ENG TT 32.4  
HOBS: 43.9

## Engine Entries

- Replaced wastegate actuator E4A-41-120-000
- Replaced boost pressure actuator E4A-41-300-801

DATE 9/24/2022

SIGNED:

Chad Cox, License AP3782800 IA

Work Order: 0673

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ENGINE MODEL AE300  
ENGINE S/N E4-A-06293  
REG NO N844LA  
WORK ORDER 0703



Premier Aircraft Service, Inc.

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562 881 5345

DATE 10/26/2022  
A/C TSN 74.8  
ENG TT 74.8  
HOBS: 98.9

## Engine Entries

- Replaced oil and filter. Serviced with Aeroshell Diesel Ultra
- Inspected gearbox chip collector

DATE 10/26/2022

SIGNED:

Roston Wilson, License 4600007

Work Order: 0703

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ENGINE MODEL AE300  
ENGINE S/N E4-A-06293  
REG NO N844LA  
WORK ORDER 0897



Premier Aircraft Service, Inc.

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone 562 881 5345

DATE 8/1/2023  
A/C TSN 200.1  
ENG TT 200.1  
HOBS: 260.1

## Engine Entries

- Performed 100 Hour Inspection using DA40NG AMM as a guide
- Changed oil and filter. Serviced engine with Aeroshell Diesel Ultra
- Inspected gearbox magnetic chip collector

I certify this engine has been inspected in accordance with an Annual Inspection and was determined to be in airworthy condition

DATE 8/1/2023

SIGNED:

David Seastead, License AP3492477 IA

Work Order: 0897

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Going your way every day since 1957  
Aircraft Logbook Entry

REFERENCE:  
ME or  
O/ACA

Date: 8-2-2024  
TSMOH: 297.2

Aircraft: N844LA  
TTAF: 297.2

SN: 40.NC194  
Tach: 297.2

Annual inspection completed this date. 100 and 300 hour inspection requirements complied with. Replaced oil filter, and gearbox filter with new per 300 hour kit p/n E4A-00-301-KIT. Changed engine oil using 5W30 Diesel Ultra. Changed gearbox oil using Spirex. AD's checked thru CD2024-14. Complied with AD2016-23-03 by inspection of the "V" band clamping. Complied with AD 2023-20-03 by retrieving an oil sample and performing oil analysis. I certify that this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

A&P3296474IA

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE FBO - MAINTENANCE

Don Davis Aviation, Inc - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6000 - Fax 270 826 6040

ENGINE (ANNUAL)



Take Flight Av  
49 Hangar Rd Montgomery NY.  
845-457-

N844LA

Austro E4A S/N: E4-A-06293

12/05/2025

Hobbs: 443.9

Tach: 333.9

TSN: 333.9

1. Performed Annual engine inspection I/A/W 14 CFR, part 43, Appendix D, using Austro Engines E4 Manual and Diamond AMM checklist for reference. Installed P/N HU615/3x - Oil filter, Installed (7) P/N 5W30LT - Aeroshell.
2. Drained oil, retained sample for analysis. Removed filter, inspected with no contamination noted. Installed new filter, safety wired and added 7qts Aeroshell Ultra Diesel oil. Installed P/N Blackstone Kit - Oil Analysis.
3. All routine service items performed. Installed (1 gal) P/N SPIRAX-S6-GXME75W - Gearbox Oil, Installed P/N WK724-3 - Fuel filter.
4. Inspected engine coolant tank and pressure checked as required.
5. Visually inspected turbo charger and lubricated as required.
6. Inspected exhaust system as required.
7. Examined all belts and wiring with no defect noted.
8. All applicable ADs checked bi-weekly thru this date.
9. Removed engine to facilitate piston replacement. Dis-assembled engine and removed time limited pistons and installed kit E4A-72-300-KIT and core replacement kit P/N: E4A-00-M01-KIT. Engine re-assembled, re-installed and serviced to proper level with oil, coolant and gearbox fluid. All work done IAW Austro maintenance manual and Diamond DA40 Maintenance manual. Piston kit installed S/N: 00831 Installation of this kit terminates the repetitive inspection called out in AD2024-19-10 and AD2025-02-12. Installed (2) P/N Zerex-G48 - Zerex G48.

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

James T. Markey 31668721A