

Engine
Log

AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG

1. Approving Competent Authority/ Country Austro Control GmbH Austria		2.		3. Form Tracking Number AE031295	
4. Organisation Name and Address Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wf. Neustadt, AUSTRIA			5. Work Order / Contract / Invoice ES200268		
6. Item	7. Description	8. Part No.	9. Quantity	10. Serial No.	11. Status / Work
1	Engine Configuration A Hybrid	E4A-00-000-AHY Iss. 011	1	E4-A-05015	New
 QC2006506					
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 10; Damper assy P/N: D44-7306-30-00_1 (EASA Form1: AL63591) Item 1 Fuel hose assy P/N: A2419-01 (EASA Form1: 225324). 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		☐ Part 145 A.50 Release to Service ☐ Other regulation specified in block 12			
13b. Authorised Signature 		13c. Approval /Authorisation Number AT.21G.0010		14a. 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.	
13d. Name 		13e. Date (dd mm yy) 03 FEB 2020		14b. Authorised Signature	
				14c. Certificate / Approval Reference Number	
				14d. Name	
				14e. Date (dd mm yy)	

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-05015
5. Date of Manufacture:	FEB 03 2020
6. Aircraft Inspection Cycle:	



Section 3A: Engine Service and Maintenance Log



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

Registration: N251PA
AC Serial Number: 40.NC103
Engine Serial Number: E4-A-05015
Prop Serial Number: 191217
Airframe Total Time: 4.2 HRS

- Total Time Engine Brought forward from Flight Test Journey Log (DAI - Form Q-157): 4.2 HRS
- Engine installed new on Aircraft DA 40 NG, S/N: 40.NC103
- The following STC's are incorporated:
 - No STC's incorporated
- Bi-weekly AWD check carried out to current revision 2020-20 all applicable AD's complied with, see attached.
- The work described above was carried out IAW the applicable Standard of Airworthiness.

[Signature]
Inspector

OCT 08 2020
Date

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ENGINE LOG



Reg: N251PA
Make: Diamond
Hobbs: 97.7
Eng. S/N: E4-A-05015
Model: E4-A
Tach: 93.6
TSMOH: 53.6 Time since new

- C/W ANNUAL INSPECTION in accordance with FAR 43 APPENDIX D - Using DA40NG AMM as a guide
- C/W 100 hour Inspection
- C/W AD 2016-23-03, 100 hour repeat inspection of V-band clamp. Next due 100 hours.
- AD 2021-09-04, Austro Engine HPP pump is not applicable per aircraft serial number and HPP serial number.
- AD 2020-14-07, Austro Engines Timing Chain, "Due at 900 hours.
- C/W Oil and filter change
- C/W Fuel filter change
- Tightened clamp at heat exchanger for small coolant leak.
- Installed Tanis engine heater. Weight and balance change negligible.

I certify that this engine has been inspected in accordance with (annual) inspection and was determined to be in airworthy condition.

Kevin Pierron A&P 33431891A 10-7-2021

WWW.STEELAVIATION.COM



LIFT MAINTENANCE

Registration: N251PA
AC Serial Number: 40.NC103
Engine SN: E4-A-05015
Airframe/ Engine TT: 112.4
WD: 4047

Maintenance performed:
Complied with a 100 Hr. inspection IAW FAR 43 appendix D and referencing the aircraft and engine MMs. Drained engine and gearbox oil, replaced engine, gearbox, and fuel filters. Serviced engine with AeroShell Diesel Ultra oil. Serviced gearbox oil with Spirax-56-GXME oil. Serviced coolant with Glyscantin Protect Plus G48 and distilled water. Took engine oil sample and sent to Blackstone. Run up and leak check good.
The aircraft, or component(s) identified above was repaired, installed, or inspected IAW regulations of Federal Aviation Administration and was determined airworthy and approved for return to service only for the work performed. Details of the work are on file at this repair station under work order 4047. Date: 9/27/2022

I certify that this engine has been inspected IAW a 100 Hr. inspection and was found to be airworthy.

Signature: Gregory Dodson
LIFT Maintenance FAA CRS # 717R550D

Employee Number: 614813
2753 Cargo Drive, Indianapolis, IN 46241



LIFT MAINTENANCE

Registration: N251PA
AC Serial Number: 40.NC103
Airframe TT: 1962.5
Engine Serial Number: E4-A-05015
ETSN: 112.4 ETSO: N/A
WD: NA

Maintenance performed:
AD 2011-18-19 dated October 6, 2011 is NA, affected high-pressure pump not installed.
AD 2014-08-10 dated June 3, 2014 is NA, affected waste gate controller not installed.
AD 2020-14-07 dated August 25, 2020 is due at 900.0 AFTT.
AD 2020-22-14 dated December 10, 2020 terminating action was complied with at manufacture.
AD 2021-17-01 dated August 23, 2021 found engine SN not listed in MSB-E4-031/1, revision 1.
AD 2021-24-10 dated December 27, 2021 found engine SN not listed in MSB-E4-030/4 revision 4.
AD 2022-03-03 dated February 14, 2022 is NA the engine SN is not listed in MSB-E4-036/1 Dated Dec 2021.

Date: 09/28/2022

Signature: *[Signature]*
Gregory Dodson
LIFT Maintenance 2753 Cargo Drive, Indianapolis, IN 46241

A&P 3144413

TOTALS					
PREVIOUS TOTALS					
TOTALS SINCE NEW					

Registration: N487L
AC Serial Number: 40.NC103
Airframe TT: 157.5
Engine Serial Number E4-A-05015
ETSN: 157.5 ETSO: N/A
WO: IND5927



A1

Maintenance performed: Complied with a 100HR inspection referencing the aircraft and engine MMs. Drained the engine and gearbox oil and replaced the engine oil and fuel filters. Inspected the old oil filter; found OK. Inspected Gearbox filter and found no metal. Serviced engine with 7 Liters of Areoshell Diesel Ultra oil. Refilled gearbox oil.
I certify that this engine has been inspected IAW a 100 Hr. inspection and was found to be airworthy.

Date: 10/12/2023

Signature:

James Boothe

A&P 4459974 IA

LIFT Maintenance 2753 Cargo Drive, Indianapolis, IN 46241

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

wo: WO_612

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

N251PA

TACH: 213.8

AUSTRO, E4-A, S/N: E4-A-05015

December 05, 2024

1. C/W Annual Inspection I/A/W Austro MM 05-20-00.
2. C/W engine oil service I/A/W Austro MM 12-10-00.a, cut open oil filter, NDN Installed P/N E4A-52-000-KIT - DIAMOND 100HR MAINT. KIT, Installed (7) P/N AEROSHELL DIESEL ULTRA - DIESEL PISTON OIL, 1L.
3. C/W coolant system service, I/A/W Austro MM 12-10-00.c.
4. C/W engine gearbox service I/A/W Austro MM 12-10-00.b. NDN. Installed (2) P/N TORRO_60-80_9_W1 - TORRO HOSE CLAMP, DIAMOND.
5. C/W FUEL SYSTEM SERVICE I/A/W Diamond MM CH. 28-20-00 Part 4 A&B. Installed P/N WK724-3 - DIAMOND FUEL FILTER.
6. MSB-E4-039 N/A by Engine serial number not listed in MSB.
7. AD 24-19-10 & MSB-E4-043 N/A by engine serial number not listed in MSB-E4-043.
8. AD 24-05-01 and MSB-E4-042/R1 N/A by engine serial number not listed in MSB-E4-042.
9. MSB-E4-007 N/A by Engine serial number not affected.
10. MSB-E4-036/1 N/A by HPP S/N not listed in MSB.
11. MSB-E4-031/2 N/A by serial number of engine not listed in service bulletin.
12. MSB-E4-030/4 N/A by engine serial number not listed in service bulletin.
13. MSB-E4-028/3 N/A by engine serial number not listed in service bulletin.

I certify that this ENGINE 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_612.

Jeff Pleiman A/P I/A 3304319

ENGINE MODEL: E4-A
ENGINE S/N: E4-A-05015
REG. NO: 251PA
WORK ORDER:
10521-01-2024



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 5/6/2024
A/C TSN: 250.7
ENG TT: 250.7
TACH: 250.7

Engine Entries

(2) REPLACED CYLINDER HEAD ASSY WITH NEW P/N E4A-00-M02-BHY S/N 02867. REPAIRED CAS1 SENSOR WIRE TERMINAL. WORK DONE IAW E4-08-04 MM CH 71-50 AND AC43.13-1B CH 11. PERFORMED ENGINE RUN, OPS CHECKED GOOD.

DATE: 5/6/2024

SIGNED:

JUAN VALENCIA
CRS 9PRR402B

Work Order: 10521-01-2024

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Section 3A: Engine Service and Maintenance Log

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Section 3A: Engine Service and Maintenance Log

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Diamond
AIRCRAFT

Registration:	N251PA
AC Serial Number:	40.NC103
Engine Serial Number:	E4-A-05015
Prop Serial Number:	191217
Airframe Total Time:	4.2 HRS

- Total Time Engine Brought forward from Flight Test Journey Log (DAI - Form Q-157): 4.2 HRS
- Engine installed new on Aircraft DA 40 NG, S/N: 40.NC103
- Bi-weekly AWD check carried out to current revision 2020-20 all applicable AD's complied with, see attached.
- The work described above was carried out IAW the applicable Standard of Airworthiness.

Inspector

OCT 08 2020

Date _____

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Section 3B: Record of Engine Airworthiness Directives (A/D) and Service Bulletins

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AIRFRAME TECHNICAL RECORD

Section 3: Engine Log

This engine log is a part of the permanent technical record for the engine described at the front of this log. Only information that is directly applicable to the engine should be entered into this log. Information relating to the airframe, propellers, or other components having their own permanent technical records, should be entered into separate records. Entries may be made either by writing directly in the log pages, or by completion of separate printed reports, which are then pasted, stapled, or otherwise permanently attached to the applicable sections of the logbook.

Users may adopt different date formats to conform to local convention. Upon commencing a new page, enter an example of the date format to be used in the space provided at the top of each date column. For example:

dd-mm-yyyy	(European format)
mmm dd,yyyy	("Microsoft" format)
yyyy.mm.dd	(military format)

Every effort must be made to remove the inherent ambiguity in dates such as "04/03/06" where the year or month is not immediately apparent. All date entries on that page must then conform to the format indicated. When an entry takes up more than one row, draw a line through the unused cells of the affected rows to prevent the entry of unrelated information.

Maintenance may be recorded directly in this log, together with the applicable maintenance release, or it may be first recorded and certified in the aircraft journey log, and then transcribed into this log no later than thirty days following the events concerned. Where maintenance is originally certified in the journey log, there is no need for a second maintenance release when the details are transcribed into this log, but the name of the person making the transcription must be entered. Persons who transcribe entries are not responsible for the work described, but only for the accuracy of the transcription.

If an entry made in this technical record is **signed** and an **A&P or AME** licence number or an Aircraft Certifying Authority (ACA) reference and AMO number are added adjacent to the signature, the entry constitutes a maintenance release indicating that the maintenance task described has been performed in accordance with the applicable airworthiness requirements.

On bringing this log into use, enter the appropriate volume number, the date, and other applicable information relating to the aircraft in the spaces provided.

Maintenance Task Entry:

Section 3A: Record of maintenance and elementary work

For each maintenance task performed on the engine (including the accomplishment of **Airworthiness Directives** and the removal and installation of items such as propellers, that have their own permanent technical records) enter the date, total air time, total cycles, and a brief description of the task, in the appropriate cells in the first part (Part A) of this log. Where information is transcribed from another record, the name of the person transcribing the information should be printed (not signed) in the signature cell, and a line struck through the "AME or AMO/ACA" cell.

Where the information is being recorded for the first time in this log, and relates to a task that requires a maintenance release, the person issuing the release must sign in the signature cell, and add his **A&P or AME** licence number, or where applicable, the ACA licence and AMO number, in the "AME or AMO/ACA" cell.

Section 3B: Record of Engine Airworthiness Directives

Applicable **Engine Airworthiness Directives**, airworthiness limitations, and equivalent mandatory requirements are recorded in a separate section (3B) in the latter part of this volume

