

AIRCRAFT TECHNICAL RECORD

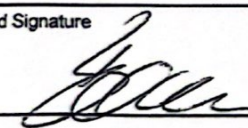
Section 3. ENGINE LOG

1. Approving Competent Authority / Country Austro Control GmbH Austria		2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1			3. Form Tracking Number AE034162	
4. Organisation Name and Address Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wr. Neustadt, AUSTRIA		5. Work Order / Contract / Invoice ES201847				

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-05034 ✓	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 Form1: AJ53591)
 Item 1 Fuel hose assy P/N: A24119-01 (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		14a. ☐ Part-145.A.50 Release to Service ☐ 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 Part-145 and in respect to that work, the items are considered ready for release to service.	
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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) 16 SEP 2020	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-05034 |
| 5. Date of Manufacture: | SEP 16 2020 |
| 6. Aircraft Inspection Cycle: | |

Section 3A: Engine Service and Maintenance Log



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

Registration: N1693V
AC Serial Number: 40.NC113
Engine Serial Number: E4-A-05034
Prop Serial Number: 200165
Airframe Total Time: 4.1 HRS

- Total Time Engine Brought forward from Flight Test Journey Log (DAI - Form Q-157): 4.1 HRS
- Engine installed new on Aircraft DA 40 NG, S/N: 40.NC113
- The following STC's are incorporated:
 - o No STC's incorporated
- Bi-weekly AWD check carried out to current revision 2020-22 all applicable AD's complied with, see attached.
- The work described above was carried out IAW the applicable Standard of Airworthiness.


Inspector

NOV 05 2020

Date

(Intentionally left blank below this point)



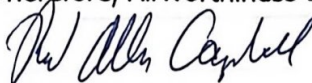
SPECIAL SERVICES CORPORATION

Date: 05/19/2021 N1693V
Eng.: Austro Engines GmbH
Model: E4-A
Hobbs: Eng. S/N: E4-A-05034
Eng. TT: Eng. TSNEW:

Compression: #1 N/A #2 N/A #3 N/A #4 N/A

In accordance with Austro Engine GmbH's Mandatory Service Bulletin No. MSB-E4-030/4 (revision 4), the oil pump in N1693V's engine (serial number E4-A-05034) does not have to be replaced (by engine serial number). Therefore, Airworthiness Directive 2021-09-04 is not applicable to N1693V's engine.

Ronald Allen Campbell, A&P 001959044



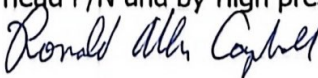


SPECIAL SERVICES CORPORATION

Date: 10/28/2021 N1693V
Eng.: Austro Engine GmbH
Model: E4-A
Hobbs: Eng. S/N: E4-A-05034
Eng. TT: Eng. TSNEW:

AD 2021-22-20 is not applicable by cylinder head P/N and by high pressure fuel pump S/N. The effective date of this AD is 11/16/2021.

Ronald Allen Campbell, A&P 1959044



THIS PAGE
TOTALS

PREVIOUS
TOTALS

TOTALS
SINCE NEW

CARRY FORWARD to Top of Next Page



Eng.: Austro Engine GmbH
Model: E4-A
Hobbs: 80.5
Eng. TT: 53.0

Eng. S/N: E4-A-05034
Eng. TSNEW: 53.0

A1

ENCE:
E or
I/ACA

Using the Diamond Inspection Guide and the Austro Engine Inspection guide as guides, performed an annual/100 hour inspection in scope and detail of items according to FAR Part 43 Appendix D. Took and oil sample and sent the sample to the laboratory. Serviced with 7 liters of Aeroshell Diesel Ultra 5W30 oil. Cleaned the gear box filter and serviced wicked the gearbox with Shell Spiral G6 75-80 oil. Used a Diamond 100 hour kit to replace filters and o-rings with new filters and o-rings. Using the following new parts, 1 each P/N E4A-04-000-003 (pipe to turbo gasket), 1 each P/N E4A-04-000-002 (manifold gasket), 2 each P/N DIN7603-14X18X1.5-CU (turbo return banjo sealing ring), and 2 each DIN7603-12X16X2.0 (sealing form ring gasket), replaced the turbocharger with a new turbocharger, P/N E4A-00-410-BHY (serial/batch number RC2104349 [1]). All applicable airworthiness directives through 01/012022 have been reviewed and complied with. Performed a ground run and leak check.

Work was also performed by Aaron Bradstreet.

Ronald Allen Campbell

I certify that this engine has been inspected in accordance with an Annual/100 hour Inspection and found to be in airworthy condition on this date.

Ronald Allen Campbell, IA 1959044



Date: 02/04/2022
Eng.: Austro Engine GmbH
Model: E4-A
Hobbs:
Eng. TT: 54.6

N1693V

Eng. S/N: E4-A-05034
Eng. TSNEW: 54.6

Using the Diamond Inspection Guide and the Austro Engine Inspection guide as guides, performed an annual/100 hour inspection in scope and detail of items according to FAR Part 43 Appendix D. Using the following new parts, 1 each P/N E4A-04-000-003 (pipe to turbo gasket), 1 each P/N E4A-04-000-002 (manifold gasket), 2 each P/N DIN7603-14X18X1.5-CU (turbo return banjo sealing ring), and 2 each DIN7603-12X16X2.0 (sealing form ring gasket), replaced the turbocharger with a new turbocharger, P/N K16-904-6 (S/N XG50050224). All applicable airworthiness directives through 02/04/2022 have been reviewed and complied with. Performed a ground run and leak check.

Work was also performed by Aaron Bradstreet.

Ronald Allen Campbell

I certify that this engine has been inspected in accordance with an Annual/100 hour Inspection and found to be in airworthy condition on this date.

Ronald Allen Campbell, IA 1959044

Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RUN		TIME SINCE OVERHAUL		CYCLES		DESCRIPTION OF WORK PERFORMED: (INSPECTION, REPAIRS, REPLACEMENT)
	HOURS	min	HOURS	min	Sub Total	TOTAL	
ROUGH FORWARD							



Date: 03/13/2023
Eng.: Austro Engine Gmbh
Model: E4-A
Hobbs: 140.4
Eng. TT: 95.3

N1693V

Eng. S/N: E4-A-05034
Eng. TSNEW: 95.3

Using the Diamond Inspection Guide and the Austro Engine Inspection guide as guides, performed an annual/100 hour inspection in scope and detail of items according to FAR Part 43 Appendix D. Took and oil sample and sent the sample to the laboratory. Serviced with 7 liters of Aeroshell Diesel Ultra 5W30 oil. Cleaned the gear box filter and serviced wicked the gearbox with Shell Spiral G6 75-80 oil. Used a Diamond 100 hour kit to replace filters and o-rings with new filters and o-rings. Installed a new coolant system pressure relief valve P/N X11-0014-00-00.00. All applicable airworthiness directives through 03/12/2023 have been reviewed and complied with. Performed a ground run and leak check.

Work was also performed by Sergey Vlasenko

I certify that this engine has been inspected in accordance with an Annual/100 hour Inspection and found to be in airworthy condition on this date.

Travis Thompson IA 3528792



Date: 04/22/2024
Eng.: Austro Engine Gmbh
Model: E4-A
Hobbs: 181.9
Eng. TT: 127.6

N1693V

Eng. S/N: E4-A-05034
Eng. TSNEW: 54.6

Using the Diamond Inspection Guide and the Austro Engine Inspection guide as guides, performed an annual/100 hour inspection in scope and detail of items according to FAR Part 43 Appendix D. Drained the oil. Took a Spectro oil sample and sent the sample to the laboratory. Serviced with 7 liters of Aeroshell Diesel Ultra oil. Replaced the oil filter with a new filter, P/N HU 615/CX. All applicable airworthiness directives through 02/04/2022 have been reviewed and complied with. Performed a ground run and leak check.

Work was also performed by Celine Robinson, Christopher Nelson, and Mark Springer.

I certify that this engine has been inspected in accordance with an Annual/100 hour Inspection and found to be in airworthy condition on this date.

Ronald Allen Campbell, IA 1959044

04/22/2024						
Complied with AD 2023-20-03, paragraphs (g)(1). The effective date of this AD is 12/11/2023. This AD is due again by 177.6 tech. hours.						
THIS PAGE TOTALS	04/22/2024	Ronald Allen Campbell	IA 1959044			
PREVIOUS TOTALS						
TOTALS SINCE NEW						

CARRY FORWARD to Top of Next Page

SPECIAL SERVICES CORPORATION



Date: 04/15/2025
Eng.: Austro Engine Gmbh.
Hobbs: 215.9
Eng. S/N: E4-A-05034
Eng. TT: 153.2

N1693V
Model: E4-A
Tach.: 153.2

Eng. TSNEW: 153.2

Using the Diamond Inspection Guide and the Austro Engine Inspection guide as guides, performed an annual/100 hour inspection in scope and detail of items according to FAR Part 43 (as applicable). Drained the oil. Complied with AD 2025-02-12, paragraphs (g) (1). The effective date of this AD is 04/01/2025. This AD is due again by 203.2 hours tachometer (paragraph (g)(5) is due by 900.0 hours). Took a Spectro oil sample and sent the sample to the laboratory. Serviced with 7 liters of Aeroshell Diesel Ultra oil. Replaced the oil filter with a new filter, P/N E4A-52-300-KIT. Using 2 each new P/N DIN7603-12X16X2.0 sealing rings, replaced the turbocharger oil inlet banjo bolt seals. Using 2 each new P/N DIN7603-14X18X2.0 sealing rings, replaced the turbocharger oil return line upper banjo bolt seals. All applicable airworthiness directives through 04/15/2025 have been reviewed and complied with.

Work was also performed by Dan Ebersole, Mark Springer, and Christopher Nelson.

I certify that this engine has been inspected or repaired in accordance with current federal aviation regulation 43 (as applicable).

Travis Thompson, A&P and I/A 3528792

Engine Log Book

Motor Logbuch



Austro Engine

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Baumuster: Type of Engine:	E4	Baureihe: Model:	E4	Motor - Nr.: Engine serial no:	E4-A-05034	1
Hersteller: Manufacturer:	Austro Engine GmbH A-2700 Wiener Neustadt, Rudolf-Diesel-Straße 11, Austria					
Kennblatt: Data sheet:	EASA.E.200			Baujahr: Year of manufacture:	2020	
Der oben bezeichnete Motor ist als betriebstüchtig anzusehen, wenn er gem. der Zivilluftfahrt- und Luftfahrtgeräte-Verordnung, letztgültige Ausgabe und den Betriebs- und Wartungsanweisungen entsprechend betrieben und gewartet wird. The above mentioned engine is considered to be operationally reliable if operated and maintained in accordance with the Zivilluftfahrt- und Luftfahrtgerät-Verordnung, latest legal issue and the pertinent operational and maintenance instructions.						
Bemerkungen: Remarks:						
Jedes Wartungsereignis, als auch ein Komponenten Tausch muss im Engine Log dokumentiert werden. Please note that every performed maintenance as well as component replacements have to be documented in the log book.						
Prüflauf durchgeführt Test run carried out						
Datum: Date:	16 SEP 2020			Unterschrift Signature:		

Baumuster: Type of Engine:	E4	Baureihe: Model:	E4	Motor - Nr.: Engine serial no:	E4-A-05034	2
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Motor Hauptkomponenten / Engine main components

Bezeichnung Designation	Teile Nummer Part number	Revision Revision	Seriennummer Serial number	TSN
Engine Electronic Control Unit Hardware	E4A-92-100-000	AB1	3408	00:00
Engine Electronic Control Unit Software	E4A-92-200-000	AD1	VC33_1_06_23	00:00
Glow Plug Control Unit	E4A-94-200-000	AA2	003367	00:00
Engine Harness	E4A-95-000-000	AC1	EWO192580	00:00
Generator	E4A-91-400-000	AB1	02593	00:00
Gearbox	E4A-70-000-000	AD1	3567	00:00
High Pressure Fuel Pump	E4A-30-000-000	AA1	19-10-01-02-00761	00:00
Common Rail	E4A-33-100-000	AA2	1923800059	00:00
System turbocharger and BPA	E4A-00-410-000	AB1	VH5003602500046	00:00
Fly Wheel	E4A-73-300-000	AB1	03731	00:00
Fuel Inject. IMA-Code #1 #2 #3 #4	E4A-35-100-000.	AA1	#1:7LIF5N; #2: 81I7CI; #3: BK1X51; #4: A1SR8S	00:00

Datum: 16 SEP 2020
Date:

Unterschrift
Signature:

