

RH

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 AE030344	
4. Organisation Name and Address		Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wr. Neustadt, AUSTRIA			5. Work Order / Contract / Invoice EUGWS1901574	
6. Item	7. Description	8. Part No.	9. Quantity	10. Serial No.	11. Status / Work	
1	E4 Configuration C	E4-C-00-000-000 Iss. 004	1	E4-C-00711	New	

12. Remarks

- Item 1 The engine conforms to EASA TCDS E.200 Issue 10; Damper assy P/N: D44-7306-30-00_1 (EASA Form1: AJ50054)
- Item 1 Fuel hose assy P/N: A24119-01 (EASA Form1: 223160). Cleaned and installed acc. AE APA_Pulsationsdämpfer-Aufbau_190618.

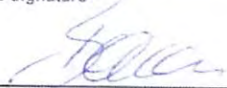
13a. Certifies that the items identified above were manufactured in conformity to:

- ☒ 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.

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)

12 NOV 2019

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.

Qty.	Description	Part number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
1	High Pressure Pump	E4A-25-220-000	010	12401-11-03-01213		
2	Common Rail	E4A-25-100-000	AA2	1211100019		
3	Gearbox	E4A-70-000-000	AC2	3380		
4	Generator	E4A-91-400-000	AB1	02279		
5	Starter	E4A-93-000-000	AA1	1405593		
6	Glow Plug Control Unit	E4A-94-200-000	AA2	003189		
7	Wiring Harness	E4B-95-000-000	AB1	EWO191800		
8	Turbocharger	E4C-00-410-000	AB1	UK5031258200013		
9	Damper Assy	D44-7306-30-00_1	N/A	N/A		
10	Hose Assy	A24119-01	N/A	N/A		

Parts not installed on the core Engine

Qty.	Description	Part number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
11	Cu-Ring	DIN7603-A14x20CU	AA1	8028803653		
12	Dichtung Auspuff	E4A-04-000-003	00-	16619532		
13	Power Lever Sensor	E4A-09-000-901	AA1	80731289		
14	Voltage Regulator	E4A-91-200-000	AA1	2389542		
15	EECU	E4C-92-000-000	AD1	3166		

Documents

Qty.	Description	Part number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
16	Engine Log	N/A	N/A	E4-C-00711		
17	Engine EASA Form 1	N/A	N/A	AE030344		
18	DAI-A EASA Form 1	D44-7306-30-00_1	N/A	AJ50054		
19	TITEFLEX EASA Form 1	A24119-01	N/A	223160		

Delivery Check

Staff:	Date: (TTMMJJ)	Sign:	Stamp:
	12 NOV 2019		

Incoming Check

Staff:	Date: (TTMMJJ)	Sign:	Stamp:



Scope of Supply

Description / Version		Engine Firewall FWD Kit-VI RH		Date: 15-11-2019	
Job number:	EWO192236	Serial No.:	E4-C-00711	14.11.19	

Parts installed

	Qty.	Description	Part Number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
1	1	E4 Configuration C	E4-C-00-000-000	004	E4-C-00711	☒	
2	1	Kühlmittelkühler	D64-9075-20-01	00C	607R-H19	☒	
3	1	Kühlmittelkühler	D64-7521-00-00_03	00A	SU0772/19	☒	
4	1	Kraftstoffkühler	D64-7306-10-00	00B	EWO192135	☒	
5	1	Engine Harness RH	D64-2406-12-00_01	00-	EWO191053	☒	
6	1	Propellerversteller	P877-16	000	19G568-I/G	☒	
7	4	Kaylock M8	LN9338-08	000	0008162671	☒	
8	1	Accumulator V1	P-893-3	000	19A133	☒	
9	1	Kabinenheizkühler	D64-2140-20-00	00D	2156R-J19	☒	
24	1	Engine Mount Assy	D64-7126-10-00_4	00-	710283-00922	☒	

Parts not installed

	Qty.	Description	Part Number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
14	1	edge clip	491-9194	000	1155088541	☒	
15	1	Halierungsschelle RSGU1 22/15	DIN3016-W1-DM22X15	AA1	LS19114792	☒	
16	1	DS Bonding Wire	BW1-B12-RY6-RY6-240	00F	EWO180172_1	☒	
17	1	DS Bonding Wire	BW1-B12-RY6-RY6-500	00F	EWO191285	☒	
21	2	Halierungsschelle	RSGU.1.35_15W1	000	LS19115066	☒	
22	1	Klemme	TORRO_10-16_9_W1	000	LS19121664	☒	
23	1	Klemme	TORRO_20-32_9_W1	000	LS19116996	☒	
25	1	Stopfmutter A2	DIN985-M6	AA1	8029012333	☒	
26	1	Scheibe DIN9021-A6,4-A2	DIN9021-M6-A2	AA1	8028275036	☒	
27	1	Scheibe ohne Fase A2	DIN125-6.4-A-A2	AA1	8029012333	☒	
28	1	Sechskantschraube M6x16	LN9037-M6X16	000	0008149262	☒	

Documents

	Qty.	Description	Part Number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
10	1	EASA Form 1	N/A	N/A	AE030424	☒	
11	1	Lieferschein	N/A	N/A	ES193278	☒	
12	1	MT-EASA Form1 & Log Sheet	P-877-16	N/A	2699/19	☒	
13	1	MT-EASA Form1 & Log Sheet	P-893-3	N/A	2282/19	☒	

Delivery Check

Staff:	Date: (DDMMYY)	Sign:	Stamp:
	15 NOV 2019		

Incoming Check

Staff:	Date: (DDMMYY)	Sign:	Stamp:

ENGINE LOG

- | | |
|----------------------------------|--------------------|
| 1. Make: | Austro Engine GmbH |
| 2. Model: | E4-C |
| 3. Specification: | EASA.E.200 |
| 4. Manufacturer's Serial Number: | E4-C-00711 |
| 5. Date of Manufacture: | Nov 2019 |
| 6. Aircraft Inspection Cycle: | |

WARRANTY

1. The engine is warranted for a period of 12 months or 1000 hours, whichever comes first, from the date of delivery to the purchaser.

2. The warranty covers all defects in materials and workmanship.

3. The warranty does not cover damage caused by misuse, neglect, or unauthorized repairs.

4. The warranty is void if the engine is used for purposes other than those specified in the engine specifications.

5. The warranty is subject to the terms and conditions of the engine purchase agreement.

6. The warranty is not transferable.

7. The warranty is limited to the repair or replacement of defective parts.

8. The warranty is limited to the cost of parts and labor.

9. The warranty is limited to the cost of transportation to and from the repair facility.

10. The warranty is limited to the cost of the engine.



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	
BROUGHT FORWARD	→						



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

Registration: N421BL
Airframe Total Time: 31.4
Engine R/H SN: E4-C-00711

AC Serial Number: 42.N388
Work Order: SO 072537
Engine R/H TT: 31.4

- Engine E4-C, S/N: E4-C-00711, installed on Aircraft DA 42 S/N: 42.N388, RIGHT
- Total Time Engine brought forward: 31.4 hrs
- EECU software installed: VC33_2_06_23
- Engine and documentation inspected for Major Mod's and/or STC's incorporated, none found.
- All applicable Airworthiness Directives, Service Bulletins complied with.
- AWD Bi-weekly checked thru 2020-04.
- Refer to Austro MM E4.08.04, latest revision for component inspection/exchange intervals
- Next inspection due: 100 hr inspection

The maintenance described has been performed IAW the Applicable Standard of Airworthiness.



Date: FEB 24 2020

BLUE LINE TECHNICAL SERVICES		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		RIGHT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 130.3		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00711	TT Adjust: 0		
WORK PERFORMED:	SNEW 130.3	Hobbs: 132.3	Total Time: 130.3		
100hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained and filtered gearbox oil, and cleaned gearbox filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. Replaced gearbox filter cover O-ring with new (P/N: DIN3771-26X2-FPM75). Ground excess stud on gearbox cooler to prevent chaffing on cowling. All ADs checked for compliance. Ground run and leak check good. I certify that this engine has been inspected IAW a 100hr and Annual Inspection per FAR 43 App. D and Austro MM and was determined to be in airworthy condition.					
Rachel Weirandt A&P/IA 3889290		Rachel Weirandt		5/12/2020	
Name/ Certificate No.		Signature		Date	

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AMO/ACA

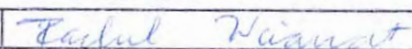
		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		RIGHT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 226.2		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00711	TT Adjust: 0		
WORK PERFORMED:		SNEW 226.2	Hobbs: 262.4	Total Time: 226.2	
100/200hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained and filtered gearbox oil, and cleaned gearbox filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. All ADs checked for compliance. Ground run and leak check good. I certify that this engine has been inspected IAW a 100/200hr and Annual Inspection per FAR 43 App. D and Austro MM and was determined to be in airworthy condition.					
Rachel Weilandt A&P/IA 3889290		<i>Rachel Weilandt</i>		8/7/2020	
Name/ Certificate No.		Signature		Date	

		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		RIGHT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 325.7		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00711	TT Adjust: 0		
WORK PERFORMED:		SNEW 325.7	Hobbs: 401.8	Total Time: 325.7	
100/300hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained and filtered gearbox oil, and cleaned gearbox filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100/300hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.					
AD 20-14-07 fuel injectors due at 900TT; no windmill starts reported.					
Rachel Weilandt A&P/IA 3889290		<i>Rachel Weilandt</i>		11/5/2020	
Name/ Certificate No.		Signature		Date	

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	
BROUGHT FORWARD							

		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		RIGHT Engine	
TECHNICAL SERVICES 919-578-3728					
Make:	Diamond	Model:	DA42NG	Serial No:	42.N388
Reg. No:	N421BL	Eng Model:	E4-C	Eng Serial:	E4-C-00711
<u>WORK PERFORMED:</u>		SNEW	425.2	Hobbs:	545.4
				Tach:	425.2
				TT Adjust:	0
				Total Time:	425.2
100/200hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52 000-KIT). Drained and filtered gearbox oil, and cleaned gearbox filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100/200hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.					
AD 20-14-07 fuel injectors due at 900TT; no windmill starts reported.					
Rachel Weiandt A&P/IA 3889290				2/11/2021	
Name/ Certificate No.		Signature		Date	

 Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		RIGHT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 521.7
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00711	TT Adjust: 0
<u>WORK PERFORMED:</u>	SNEW 521.7	Hobbs: 694.5	Total Time: 521.7
100hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained and filtered gearbox oil, and cleaned gearbox filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. Performed MSB-E4-029 modification per work instructions, installed restrictor (P/N: AEP-00361) with new clamps 2 ea (P/N: E4A-41-300-803). All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.			
AD 20-14-07 fuel injectors due at 900TT; no windmill starts reported.			
Rachel Weindt A&P/IA 3889290			5/7/2021
Name/ Certificate No.	Signature		Date

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NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

RIGHT Engine

Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 618.2
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00711	TT Adjust: 0
WORK PERFORMED:		SNEW 618.2	Hobbs: 844.2
Total Time: 618.2			
Low fuel pressure warning reported. Replaced fuel pressure sensor with new (P/N: E4A-52-100-801) and new sealing ring (P/N: DIN7603-A12X16-AL). Ground run and ops check good.			
Rachel Weindt A&P 3889290		<i>Rachel Weindt</i>	7/2/2021
Name/ Certificate No.		Signature	Date



Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

RIGHT Engine

Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 618.7
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00711	TT Adjust: 0
WORK PERFORMED:		SNEW 618.7	Hobbs: 846
Total Time: 618.7			
100/200/300/600hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained gearbox oil and serviced with Spirax GSX 75W-80. Replaced gearbox oil filter (P/N: E4A-70-000-806). Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. Removed gearbox for access. Removed flywheel for inspection. Flywheel failed visual inspection, replaced with new (P/N: E4B-73-000-000-KIT, S/N: 04895). Installed with new screws 8 ea (P/N: E4A-73-000-801). Reinstalled gearbox. Replaced high pressure fuel pump with new (P/N: E4A-30-000-BHY) with new gaskets (P/N: DIN7603-A12X16-AL) and sealing rings (P/N: DIN7603-12X16X2.0). All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100/200/300/600hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.			
AD 20-14-07 fuel injectors due at 900TT; no windmill starts reported.			
Rachel Weindt A&P/IA 3889290		<i>Rachel Weindt</i>	7/12/2021
Name/ Certificate No.		Signature	Date



Blue Line Technical Services, LLC
3149 B Swift Creek Rd.
Smithfield NC, 27577

RIGHT Engine

Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 622
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00711	TT Adjust: 0
WORK PERFORMED:		SNEW 622	Hobbs: 853.3
Total Time: 622			
Dual ECU fails reported. Pulled codes, tested waste gate controller, failed. Replaced waste gate controller with new (P/N: E4A-41-120-000) with new circlip (P/N: E4A-41-100-801). Reused fail safe bridge and installed new Nordlock washers (P/N: NL4SP). Replaced BPA sheet metal bracket with serviceable. Ground run good.			
Rachel Weindt A&P 3889290		<i>Rachel Weindt</i>	7/15/2021
Name/ Certificate No.		Signature	Date

Section 3A: Engine Service and Maintenance Log

DATE 1 / 1	TIME RUN		TIME SINCE OVERHAUL		CYCLES	
	HOURS	min	HOURS	min	Sub Total	TOTAL
BROUGHT FORWARD						

DESCRIPTION OF WORK PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)

BLUE LINE TECHNICAL SERVICES 919-578-3728		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		RIGHT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 682.3		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00711	TT Adjust: 0		
WORK PERFORMED:		SNEW 682.3	Hobbs: 944.5	Total Time: 682.3	
Low fuel pressure annunciation reported. Replaced fuel pressure sensor with new (P/N: E4A-52-100-801) with new sealing ring (P/N: DIN7603-A12X18X1.5AL). Ops check good. All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service.					
Rachel Weindt A&P 3889290		<i>Rachel Weindt</i>		8/25/2021	
Name/ Certificate No.		Signature		Date	

BLUE LINE TECHNICAL SERVICES 919-578-3728		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		RIGHT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 717.4		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00711	TT Adjust: 0		
WORK PERFORMED:		SNEW 717.4	Hobbs: 1001.4	Total Time: 717.4	
100hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained and strained gearbox oil. Cleaned gearbox oil filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. Replaced gearbox oil filter cover O-ring with new (P/N: DIN3771-26X2-FPM75). All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100/200/300/600hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.					
AD 20-14-07 fuel injectors due at 900TT; no windmill starts reported.					
Rachel Weindt A&P/IA 3889290		<i>Rachel Weindt</i>		9/28/2021	
Name/ Certificate No.		Signature		Date	

BLUE LINE TECHNICAL SERVICES 919-578-3728		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		RIGHT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 792.1		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00711	TT Adjust: 0		
WORK PERFORMED:		SNEW 792.1	Hobbs: 1118.7	Total Time: 792.1	
C/W AD 21-22-20 per MSB-E4-034/3 by replacing gear on high pressure fuel pump. Removed gear S/N: 1170, installed new (P/N: E4A-30-000-201 AE1, S/N: 4111). Reinstalled pump using new sealing rings (P/N: DIN7603-A12X16-AL) and new gaskets (P/N: DIN7603-12X16X2.0). Ground run and leak check good. Due to special tool used to hold gear, pulled pump and inspected cylinder head and HPFP gear. Good at this time. Reinstalled pump. MSB-E4-035/1 does not apply.					
All maintenance performed on this aircraft was performed in accordance with current manufacturers' requirements and 14 CFR Part 43. This aircraft is approved for return to service.					
Rachel Weindt A&P 3889290		<i>Rachel Weindt</i>		11/19/2021	
Name/ Certificate No.		Signature		Date	

 BLUE LINE TECHNICAL SERVICES 919-578-3728		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		RIGHT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 816.8		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00711	TT Adjust: 0		
WORK PERFORMED:		SNEW 816.8	Hobbs: 1153.3	Total Time: 816.8	
100/200hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained and strained gearbox oil. Cleaned gearbox oil filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100/200hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.					
AD 20-14-07 fuel injectors due at 900TT; no windmill starts reported.					
Rachel Weindt A&P/IA 3889290		<i>Rachel Weindt</i>		12/14/2021	

ICE:
CA

Registration #: N421BL
 Manufacturer: Austro Engines
 Serial No: RIGHT - E4-C-00711
 Part/Model No: E4C
 Work Order No: 840


BLUE LINE
 TECHNICAL SERVICES

TACH: 829.30
 HOBBS: 1,179.90
 A/C Total Time: 829.30
 engine TSK: 829.30
 Date: 12/15/2022

- Annual inspection. Drained oil, pulled sample. Serviced engine with 7 liters of Aeroshell Ultra Diesel and using 100hr kit (P/N: E4A-52-000-KIT). Replaced fuel filter (P/N: WK724-3). Performed 100hr gearbox service; drained and strained gearbox oil and cleaned filter. Topped off coolant with G48. Ground run and leak check good. All ADs checked for compliance. I certify that this engine has been inspected (AVI) on Annual inspection and per FAR 43 App. D and Austro MM and was determined to be in an airworthy condition.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE HAS BEEN REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES, LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Maintenance Facility under Work Order No 840 dated 12/14/2021.

Date: 12/16/2022

Signature: *Rachel Weindt*

Work Order: 840

AP Number: 4-P 388929014

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	
BROUGHT FORWARD	→						

Registration #: N42180

Manufacturer: Austro

Serial No: E4-C-00711 RIGHT

Part/Model No: E4-C

Work Order No: 2167



BLUE LINE
TECHNICAL SERVICES

TECHNICAL SERVICES

ACH: 97250

HOBBS: 1,281.90

A/C Total Time: 873.59

Engine TSO: 873.50

Date: 01/24/2008

- RH engine Annual Inspection. Removed cowlinos and inspected engine. Ground run and leak check good. Checked all ADs for compliance. I certify this engine was inspected TAW in Annual inspection per FAR 43 App. D and Austro MM and was determined to be in an airworthy condition.
- Performed 100/300 hour servicing. Drained engine oil. Serviced engine with 7qts Castrol Edge 5W-30 AD/B4 and new oil filter (P/N: E4A-52-300-KTT). Serviced coolant system with Zerex G48 coolant. Replaced fuel filter with new (P/N: WK724_3). Serviced gearbox with new Spirax gear oil and replaced fill and drain sealing rings (P/N: E4A-70-000-826). Replaced gearbox filter with new (P/N: E4A-70-000-806) Leak check good.
- AD 20-14-07 C/W at this time by replacing fuel injectors with new 4 ea (P/N: E4A-35-100-000), new screws 4 ea (P/N: E4A-03-000-201), and new gaskets 4 ea (P/N: E4A-03-000-001) Next due 1773.50. No windmill starts reported.
- Filled oil sample for analysis.
- Updated ECU software to version 2b.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES, LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN REGARD TO SERVICE.

Permanent details of maintenance are held in this Maintenance Facility under Work Order No 2167 dated 17/01/2024.

Date: 1/24/2024

Signature: Rachel Weisandt

Work Over, 1167

AF #: AIP/H 328929D

READING & NORTHERN AVIATION 223 WEST APRON DRIVE Reading, PA 19605
LOG ID# 2902 08-May-2025 WO# 13548/3 REF# 13548 AC TT 912.7
N421BL S/N 42.N388 DA 42 NG

Pg 1 / 1

***** ITEM # 13548-3 PERFORM AN ANNUAL ENGINE INSPECTION ON R *****
DISCREPANCY: PERFORM AN ANNUAL ENGINE INSPECTION ON R/H ENGINE IN ACCORDANCE WITH FAR 43 APPENDIX
(D) WITH REFERENCE TO THE MANUFACTURES CHECKLIST
ACTION: DEFERRED TO SERVICE CENTER, NO ACTION TAKEN.
DRAINED ENGINE OIL AND TOOK SAMPLE. SERVICED ENGINE WITH 7 QUARTS OF AEROSHELL DIESEL ULTRA.

A+P3557961IA PETER COLLINS

Date _____

THIS PAGE
TOTALS

PREVIOUS
TOTALS

TOTALS
SINCE NEW

CARRY FORWARD to Top of Next Page

DATE: JUNE 24, 2025 | AUSTRO | RIGHT ENGINE | S/N: E4-C-00711 | REG: N421BL
TACH: 914.8 HRS. TTE: 914.8 HRS.

100HR/ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT DA42 NG AMM AND
AUSTRO ENGINE MAINTENANCE MANUAL.

AIRWORTHINESS DIRECTIVES CHECKED THROUGH BIWEEKLEY DATE 2025-12

- PERFORMED OIL CHANGE.
- CUT OIL FILTER, INSPECTED FOR METAL, NONE NOTED.
- COLLECTED OIL SAMPLE FOR ANALYSIS TO BE COMPLETED BY BLACKSTONE LABORATORIES.
- REFILLED WITH 7 LITERS AEROSHELL DIESEL ULTRA 5W-30.
- REPLACED OIL FILTER, P/N:(E4A-52-300-KIT).
- REPLACED FUEL FILTER, P/N:(WK724_3). NEXT DUE 200HRS OR 6/24/2025.
- CHECKED GEARBOX MAGNETIC PLUG FOR METAL. NO METAL NOTED.
- DRAINED AND STRAINED GEAR BOX OIL. INSTALLED NEW GEARBOX FILTER.
- RESECURED, ADDED ANTICHAFF TAPE, AND ADJUSTED HOSES AND LINES AS NECESSARY TO PREVENT CHAFIN.
- REPLACED ENGINE INDUCTION FILTER BOX BRACKET LOWER SHOCK 2 MOUNTS.
- REPLACED INDUCTION FILTER WITH NEW P/N: [RU-1620].
- REMOVED AND REINSTALLED INJECTOR COVER TO FACILITATE REAPPLICATION OF FIRE PROTECTION PAINT.

GROUND RAN ENGINE AND TESTED FOR OPERATION AND LEAKS, NO FAULTS NOTED.

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

Timothy D Jordan
TIMOTHY D JORDAN

A&P/IA 3264477

Engine Log Book

Motor Logbuch



Austro Engine

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E4-C-00711 RH

Baumuster: Type of engine:	E4	Baureihe: Model:	E4	Motor - Nr.: Engine serial no:	E4-C-00711
Hersteller: Manufacturer:	Austro Engine GmbH A-2700 Wiener Neustadt, Rudolf-Diesel-Straße 11, Austria				
Kennblatt: Data sheet:	EASA.E.200			Baujahr: Year of manufacture:	2019
Der oben bezeichnete Motor ist als betriebstüchtig anzusehen, wenn er gemäß der Zivilluftfahrt- und Luftfahrtgeräte-Verordnung, letztgültige Ausgabe und den Betriebs- und Wartungsanweisungen entsprechend betrieben und gewartet wird. <i>The above mentioned engine is considered to be operationally reliable if operated and maintained in accordance with the civil aviation regulations, latest legal issue and the pertinent operational and maintenance instructions.</i>					
Bemerkungen: Remarks:	Jedes Wartungsereignis, als auch ein Komponenten Tausch muss im Engine Log dokumentiert werden. <i>Please note that every performed maintenance as well as component replacements have to be documented in the log book.</i>				
Prüflauf durchgeführt Test run carried out.					
Datum: Date:	12 NOV 2019 				

Baumuster: Type of engine	E4	Baureihe: Model	E4	Motor - Nr.: Engine serial no	E4-C-00711	2
Motor Hauptkomponenten / Engine main components						
Bezeichnung Designation	Teile Nummer Part number	Revision Revision	Seriennummer Serial number	TSN		
Motorsteuergerät Engine Electronic Control Unit Hardware	E4A-92-100-000	AB1	3166	00:00		
Motorsteuergerät Software Vers. Engine Electronic Control Unit Software	E4C-92-200-000	AC1	VC33_2_06_23	00:00		
Glühstift Kontroll Box Glow Plug Control Unit	E4A-94-200-000	AA2	003189	00:00		
Motor Kabelbaum Engine Harness	E4B-95-000-000	AB1	EWO191800	00:00		
Generator Generator	E4A-91-400-000	AB1	02279	00:00		
Getriebe Gearbox	E4A-70-000-000	AC2	3380	00:00		
Kraftstoff Hochdruckpumpe High Pressure Fuel Pump	E4A-30-200-000	010	12-01-11-03-01313	00:00		
Kraftstoff Verteilerleitung Common Rail	E4A-33-100-000	AA2	1211100019	00:00		
Turbolader Turbocharger	E4C-00-410-000	AB1	UK5031258200013	00:00		
Schwungrad Fly Wheel	E4A-73-300-000	AB1	03817	00:00		
Fuel Injekt. IMA Code #1 #2 #3 #4 Fuel Inject. IMA-Code #1 #2 #3 #4	E4A-35-000-000	000	#1: A8HUHN; #2: 73ZD7W; #3: AB87FE; #4: 7IP5A5;	00:00		
Datum: 12 NOV 2019 Date: 						

Motor Ein- und Ausbau Übersicht / Engine installation record

4

[illegible]

SN: E4-C-00711

Status Service Bulletin (SB), Airworthiness Directives (AD) & Service Informations (SI) / Record of engine modification status

6

SB-No	Title	Status	SB-No	Title	Status
MSB-E4-002/2	Configuration Specification of the E4 Engine	performed, no open action	RSB-E4-015/1	Oil dip stick	Only for information
MSB-E4-003/23	SW u. HW Versions of the E4 Engine	performed, no open action	RSB-E4-018	Inspection of engine harness	Only for information
MSB-E4-004/1	Long term conservation of E4 Engines	performed, no open action	RSB-E4-021	Fuel Pressure Sensor - Connector modification	Only for information
MSB-E4-006	Repair of sensor cable for camshaft sensor	n/a	RSB-E4-024	Waste Gate - Spring loaded circlip	Only for information
MSB-E4-007/6	Replacement of waste gate controller	n/a	QSB-E4-019/3	Gearbox Oil Cooler	Only for information
MSB-E4-008/2	Exchange of oil separator hose	n/a			
MSB-E4-009/2	Replacement of high pressure pump	n/a			
MSB-E4-013/1	Gearbox oil inspection	n/a			
MSB-E4-014/2	Replacement of the fuel return line	n/a			
MSB-E4-017/2	Check/Exchange of timing chain	Considered for next action see 20 MSB			
MSB-E4-020	Inspection of Gearbox Housing	n/a			
MSB-E4-022/5	Waste Gate Control Rod	performed, no open action			
MSB-E4-024/1	Waste gate - Spring loaded circlip	performed, no open action			
MSB-E4-025/3	Fuel injectors	Considered for next action see 20 MSB			
MSB-E4-026/1	Inspection of Engine Harness	n/a			
AD-No	Title	Status	SI-No	Title	Status
EASA AD 2013-0025 R1	Superseded by EASA AD 2013-0213	Only for information	SI-E4-001/2	Life time and TBO extension	Only for information
EASA AD 2013-0213 R1	Replacement of waste gate controller (MSB-E4-007/6)	n/a	SI-E4-002	Gearbox oil check procedure update	Only for information
EASA AD 2010-0206	Superseded by EASA AD 2011-0039	Only for information	SI-E4-003	Technical publication and reporting system of AE	Only for information
EASA AD 2011-0039	Replacement of high pressure pump (MSB-E4-009/2)	n/a	SI-E4-004	EECU venting element	Only for information
EASA AD 2017-0103R1	Engine Timing Chain Replacement	Considered for next action see 20 MSB	SI-E4-005	New Revision - Index for part numbers	Only for information
EASA AD 2017-0250	Superseded by EASA AD 2018-0125	Only for information	SI-E4-007	Proper handling of Turbo Charger	Only for information
EASA AD 2018-0125	Turbocharger Waste Gate Controller and Control Rod Circlip	performed, no open action	SI-E4-009	Two-Mass Flywheel and Hub	Only for information
EASA AD 2019-0041	Time Limits / Maintenance Checks-Annex L, m, Sec. Amendm	Considered for next action see 20 MSB	SI-E4-010	Caution of foreign Object Ingestion during Maintenance	Only for information
FAA AD 2011-16-19	Replacement of high pressure pump (MSB-E4-009/2)	n/a	SI-E4-011	Waste Gate Bridge installed in Engines under US Regi	Only for information
FAA AD 2014-08-10	Replacement of waste gate controller (MSB-E4-007/6)	n/a			
CAAC CAD2013 DA42.01R1	Replacement of waste gate controller (MSB-E4-007/6)	n/a			
CAD2017-MULT-36 Amend. No. 39-9090	Engine Timing Chain Replacement	Considered for next action see 20 MSB			

The engine modification status consists of the applicable revision of the Type Design Definition, the Build Manual and additional installed approved design changes

Design changes	Type Design Definition: E4.08.01 Rev. 12	Build Manual: E4.08.02 Rev. 20
	MDC-E4-379, MDC-E4-391a, MDC-E4-401, MDC-E4-407a, MDC-E4-412, MDC-E4-414, MDC-E4-424, MDC-E4-425, MDC-E4-427, MDC-E4-448a, MDC-E4-450, MDC-E4-452, MDC-E4-455, MDC-E4-473, MDC-E4-475, MDC-E4-476, MDC-E4-480, MDC-E4-481, MDC-E4-483, MDC-E4-500b, MDC-E4-507a, MDC-E4-517, BM-TR-MDC-E4-491, BM-TR-MDC-E4-495a, BM-TR-MDC-E4-503.	

Date:	Signature of Certifying Staff	Signature
12 NOV 2019		

7

Änderungsstand / Modification record

Lufttüchtigkeitsanweisung bzw. Änderung:

Airworthiness directive or modification:

Ges. Std.:

TSN:

Datum:

Date:

Unterschrift & Lizenz Nr.:

Signature & License no.:

NSB 74-003125 n Software and
hardware versions¹ performed

2020

18.12.20

/12

LH

AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG

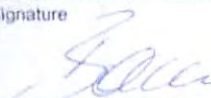
1. Approving Competent Authority / Country Austro Control GmbH Austria	2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1	3. Form Tracking Number AE030160
--	---	--

4. Organisation Name and Address Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wr. Neustadt, AUSTRIA	5. Work Order / Contract / Invoice EUGWS1901506
---	---

6. Item	7. Description	8. Part No.	9. Quantity	10. Serial No.	11. Status / Work
1	E4 Configuration C	E4-C-00-000-000 Iss. 004	1	E4-C-00708	New

12. Remarks	Item 1 The engine conforms to EASA TCDS E.200 Issue 10; Damper assy P/N: D44-7306-30-00_1 (EASA Form1: AJ50054) Item 1 Fuel hose assy P/N: A24119-01 (EASA Form1: 223160). 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.
---	--

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) 29 OCT 2019	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.



Scope of Supply

Motor Identification

Description / Version		Part number:
E4 Configuration C		E4-C-00-000-000
Job number:	Serial No:	Date (TTMMJJ)
EWO192203	E4-C-00708	28.10.2019

Parts installed on the core Engine

	Qty.	Description	Part number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
1	1	High Pressure Pump	E4A-30-200-000	010	12-01-11-03-01265		
2	1	Common Rail	E4A-33-100-000	AA2	1209500036		
3	1	Gearbox	E4A-70-000-000	AC1	3298		
4	1	Generator	E4A-91-400-000	AB1	02245		
5	1	Starter	E4A-93-000-000	AA1	1405593		
6	1	Glow Plug Control Unit	E4A-94-200-000	AA2	003172		
7	1	Wiring Harness	E4B-95-000-000	AB1	EWO191500		
8	1	Turbocharger	E4C-00-410-000	AB1	VD5003339700052		
9	1	Damper Assy	D44-7306-30-00_1	N/A	N/A		
10	1	Hose Assy	A24119-01	N/A	N/A		

Parts not installed on the core Engine

	Qty.	Description	Part number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
11	1	Cu-Ring	DIN7603-A14x20CU	AA1	8028803653		
12	1	Dichtung Auspuff	E4A-04-000-003	00-	16619532		
13	2	Power Lever Sensor	E4A-09-000-901	AA1	80731289		
14	1	Voltage Regulator	E4A-91-200-000	AA1	2389542		
15	1	EECU	E4C-92-000-000	AD1	3170		

Documents

	Qty.	Description	Part number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
16	1	Engine Log	N/A	N/A	E4-C-00708		
17	1	Engine EASA Form 1	N/A	N/A	AE030160		
18	1	DAI-A EASA Form 1	D44-7306-30-00_1	N/A	AJ50054		
19	1	TITEFLEX EASA Form 1	A24119-01	N/A	223160		

Delivery Check

Staff:	Date: (TTMMJJ)	Sign:	Stamp:
	29 OCT 2019		

Incoming Check

Date:	Date: (TTMMJJ)	Sign:	Stamp:



Scope of Supply

Motor Identification		
Description / Version	Part number	
Engine Firewall FWD Kit-VI LH	D64-7106-11-00_06	
Job number:	Serial No.:	Date (DDMMYY)
EWO192230	E4-C-00708	14.11.19

Parts installed

	Qty.	Description	Part Number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
1	1	E4 Configuration C	E4-C-00-000-000	004	E4-C-00708		
2	1	Kühlmittelkühler	D64-9075-20-01	00C	604R-H19		
3	1	Coolant Tank Assy	D64-7521-00-00_03	00A	SU0772/19		
4	1	Fuel Cooler Assy	D64-7306-10-00	00B	EWO191320		
5	1	Engine Harness LH	D64-2406-11-00_01	00-	EWO191052		
6	1	Propellerversteller	P877-16	000	19G463-I/G		
7	4	Kaylock M8	LN9338-08	000	0008162671		
8	1	Accumulator V1	P-893-3	000	19A136		
9	1	Cabin Heat Exchanger Interface	D64-2140-20-00	00D	2118R-J19		
24	1	Engine Mount Assy	D64-7126-10-00_4	00-	710263-00914		

Parts not installed

	Qty.	Description	Part Number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
14	1	edge clip	491-9194	000	1155088541		
15	1	Halierungsschelle RSGU1 22/15	DIN3016-W1-DM22X15	AA1	LS19114792		
16	1	DS Bonding Wire	BW1-B12-RY6-RY6-240	00F	EWO180172_1		
17	1	DS Bonding Wire	BW1-B12-RY6-RY6-500	00F	EWO191285		
21	2	Halierungsschelle	RSGU.1.35_15W1	000	LS19115066		
22	1	Klemme	TORRO_10-16_9_W1	000	LS19121664		
23	1	Klemme	TORRO_20-32_9_W1	000	LS19116966		
25	1	Stopfnutter A2	DIN985-M6	AA1	8029012333		
26	1	Scheibe DIN9021-A6,4-A2	DIN9021-M6-A2	AA1	8028275036		
27	1	Scheibe ohne Fase A2	DIN125-6.4-A-A2	AA1	8028174548		
28	1	Sechskantschraube M6x16	LN9037-M6X16	000	0008149262		

Documents

	Qty.	Description	Part Number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
10	1	EASA Form 1	N/A	N/A	AE030421		
11	1	Shipping Documents	N/A	N/A	ES193274		
12	1	MT-EASA Form1 & Log Sheet	P-877-16	N/A	2362/19		
13	1	MT-EASA Form1 & Log Sheet	P-893-3	N/A	1310/19		

Delivery Check

Staff:	Date: (DDMMYY)	Sign:	Stamp:
	14 NOV 2019		

Incoming Check

Staff:	Date: (DDMMYY)	Sign:	Stamp:

ENGINE LOG

1. Make:	Austro Engine GmbH
2. Model:	E4-C
3. Specification:	EASA.E.200
4. Manufacturer's Serial Number:	E4-C-00708
5. Date of Manufacture:	Oct 2019
6. Aircraft Inspection Cycle:	



Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RUN		TIME SINCE OVERHAUL		CYCLES	
	HOURS	min	HOURS	min	Sub Total	TOTAL
BROUGHT FORWARD						

DESCRIPTION OF WORK PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)



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

Registration: N421BL
Airframe Total Time: 31.4
Engine LH SN: E4-C-00708

AC Serial Number: 42 N388
Work Order: SO 072527
Engine LH TT: 31.4

- Engine E4-C, S/N: E4-C-00708, installed on Aircraft DA 42 S/N: 42.N388, LEFT
- Total Time Engine brought forward: 31.4 hrs
- EECU software installed: VC33_2_06_23
- Engine and documentation inspected for Major Mod's and/or STC's incorporated, none found.
- All applicable Airworthiness Directives, Service Bulletins complied with.
- AWD Bi-weekly checked thru 2020-04.
- Refer to Austro MM E4 08.04, latest revision for component inspection/exchange intervals
- Next inspection due: 100 hr inspection

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



Date: FEB 24 2020

BLUE LINE TECHNICAL SERVICES 919-578-3728		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		LEFT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 130.3		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00708	TT Adjust: 0		
WORK PERFORMED:	SNEW	130.3	Hobbs: 132.3	Total Time: 130.3	
100hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained and filtered gearbox oil, and cleaned gearbox filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. Ground excess stud on gearbox cooler to prevent chaffing on cowling. All ADs checked for compliance. Ground run and leak check good. I certify that this engine has been inspected IAW a 100hr and Annual Inspection per FAR 43 App. D and Austro MM and was determined to be in airworthy condition.					
Rachel Weindt A&P/IA 3889290		Rachel Weindt		5/12/2020	
Name/ Certificate No.		Signature		Date	

BLUE LINE TECHNICAL SERVICES 919-578-3728		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		LEFT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 226.2		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00708	TT Adjust: 0		
WORK PERFORMED:	SNEW	226.2	Hobbs: 262.4	Total Time: 226.2	
100/200hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained and filtered gearbox oil, and cleaned gearbox filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. Replaced 2 each exhaust studs (P/N: E4A-12-100-812) and nuts (P/N: ISO7044-M8 8-CU). All ADs checked for compliance. Ground run and leak check good. I certify that this engine has been inspected IAW a 100/200hr and Annual Inspection per FAR 43 App. D and Austro MM and was determined to be in airworthy condition.					
Rachel Weindt A&P/IA 3889290		Rachel Weindt		8/7/2020	
Name/ Certificate No.		Signature		Date	

Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577			LEFT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach:	325.7
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00708	TT Adjust:	0
WORK PERFORMED:		SNEW 325.7	Hobbs:	401.8
100/300hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained and filtered gearbox oil, and cleaned gearbox filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100/300hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.				
AD 20-14-07 fuel injectors due at 900TT; no windmill starts reported.				
Rachel Weindt A&P/IA 3889290		Signature		Date
Name/ Certificate No.				11/5/2020

Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577			LEFT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach:	425.2
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00708	TT Adjust:	0
WORK PERFORMED:		SNEW 425.2	Hobbs:	545.4
100/200hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained and filtered gearbox oil, and cleaned gearbox filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100/200hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.				
AD 20-14-07 fuel injectors due at 900TT; no windmill starts reported.				
Rachel Weindt A&P/IA 3889290		Signature		Date
Name/ Certificate No.				2/11/2021

Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RUN		TIME SINCE OVERHAUL		CYCLES	
	HOURS	min	HOURS	min	Sub Total	TOTAL
BROUGHT FORWARD						

DESCRIPTION OF WORK PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)

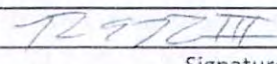
		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		LEFT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 521.7		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00708	TT Adjust: 0		
WORK PERFORMED:		SNEW 521.7	Hobbs: 694.5	Total Time: 521.7	
100hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained and filtered gearbox oil, and cleaned gearbox filter. Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. Performed MSB-E4-029 modification per work instructions, installed restrictor (P/N: AEP-00361) with new clamps 2 ea (P/N: E4A-41-300-803). All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.					
AD 20-14-07 fuel injectors due at 900TT; no windmill starts reported.					
Rachel Weindt A&P/IA 3889290		<i>Rachel Weindt</i>		5/7/2021	
Name/ Certificate No.		Signature		Date	

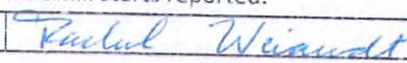
		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		LEFT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 618.7		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00708	TT Adjust: 0		
WORK PERFORMED:		SNEW 618.7	Hobbs: 846	Total Time: 618.7	
100/200/300/600hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained gearbox oil and serviced with Spirax GSX 75W-80. Replaced gearbox oil filter (P/N: E4A-70-000-806). Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. Removed gearbox for access. Removed flywheel for inspection. Performed mechanical and visual flywheel inspections, both good at this time. Reinstalled flywheel with new screws 8 ea (P/N: E4A-73-000-801). Reinstalled gearbox. Replaced high pressure fuel pump with new (P/N: E4A-30-000-BHY) with new gaskets (P/N: DIN7603-A12X16-AL) and sealing rings (P/N: DIN7603-12X16X2.0). All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100/200/300/600hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.					
AD 20-14-07 fuel injectors due at 900TT; no windmill starts reported.					
Rachel Weindt A&P/IA 3889290		<i>Rachel Weindt</i>		7/12/2021	
Name/ Certificate No.		Signature		Date	

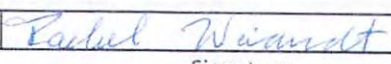
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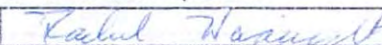
NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		LEFT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N350	Tach: 879.9		
Reg. No: N422BL	Eng Model:	Eng Serial:	TT Adjust: 0		
WORK PERFORMED:		SNEW 879.9	Hobbs: 1253.2	Total Time: 879.9	
Replaced prop gov gasket with new PN# MS9144-01, cleaned off engine from gearbox oil leak. Topped off gearbox oil. Ground run and leak check good.					
Robert T Robinson III A&P 4074592				7/30/2021	
Name/ Certificate No.		Signature		Date	

		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		LEFT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 717.4		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00708	TT Adjust: 0		
WORK PERFORMED:		SNEW 717.4	Hobbs: 1001.4	Total Time: 717.4	
100hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained gearbox oil and serviced with Spirax GSX 75W-80. Found small metal shaving on magnetic plug, will recheck oil and magnetic plug at 742.4 TT per manufacturer's recommendation. Replaced gearbox oil filter (P/N: E4A-70-000-806). Replaced Fuel filter (P/N: WK724-3). Topped off coolant with G48. Replaced gearbox oil filter cover O-ring with new (P/N: DIN3771-26X2-FPM75). All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100/200/300/600hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.					
AD 20-14-07 fuel injectors due at 900TT; no windmill starts reported.					
Rachel Weindt A&P/IA 3889290				9/28/2021	
Name/ Certificate No.		Signature		Date	

		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577		LEFT Engine	
Make: Diamond	Model: DA42NG	Serial No: 42.N388	Tach: 737		
Reg. No: N421BL	Eng Model: E4-C	Eng Serial: E4-C-00708	TT Adjust: 0		
WORK PERFORMED:		SNEW 737	Hobbs: 1033	Total Time: 737	
Performed 25hr gearbox inspection per manufacturer's recommendation. Drained gearbox oil, magnetic plug clean at this time. Serviced gearbox with Spirax GSX 75-W80.					
Rachel Weindt A&P 3889290				10/8/2021	
Name/ Certificate No.		Signature		Date	

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

 BLUE LINE TECHNICAL SERVICES 919-578-3728		Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield, NC, 27577		LEFT Engine	
Make:	Diamond	Model:	DA42NG	Serial No:	42.N388
Reg. No:	N421BL	Eng Model:	E4-C	Eng Serial:	E4-C-00708
<u>WORK PERFORMED:</u>		SNEW	816.8	Hobbs:	1153.3
				Tach:	816.8
				TT Adjust:	0
				Total Time:	816.8
100/200hr and Annual Inspection. Drained engine oil and replaced oil filter. Pulled oil sample. Serviced engine with 7 liters of Aeroshell Diesel ultra and using 100 hr kit (P/N: E4A-52-000-KIT). Drained gearbox oil. Found metal shavings on magnetic plug, removed gearbox. Replaced gearbox with overhauled (P/N: E4A-70-000-000, S/N: 2356). Serviced with Spirax GSX 75W-80. Replaced Fuel filter (P/N: WK724-3). Filled coolant with G48. All ADs checked for compliance. Ground run and leak check good. This is to certify that a 100/200hr and Annual inspection was performed in accordance with the inspections and procedures of Blue Line Aviation, LLC's Approved Aircraft Inspection Program required by 14 CFR 135.419 and 14 CFR 43. This engine has been determined to be in airworthy condition and is approved for return to service.					
AD 20-14-07 fuel injectors due at 900TT; no windrill starts reported.					
Rachel Weidant A&P/IA 3889290					
Name/ Certificate No.				Signature	
				Date	

Registration #: N421BL
 Manufacturer: Austro Engines
 Serial No: LEFT - E4-C-00708
 Part/Model No: E4C
 Work Order No: 840



TACH: 829.30
 HOBBS: 1,179.90
 A/C Total Time: 829.30
 Engine TSN: 829.30
 Date: 12/16/2022

- Annual inspection. Drained oil, pulled sample. Serviced engine with 7 liters of Aeroshell Ultra Diesel and using 100hr kit (P/N: E4A-52-000-KIT). Replaced fuel filter (P/N: WK724-3). Performed 100hr gearbox service: drained and strained gearbox oil and cleaned filter. Topped off coolant with G48. Ground run and leak check good. All ADs checked for compliance. I certify that this engine has been inspected IAW an Annual inspection and per FAR 43 App. D and Austro MM and was determined to be in an airworthy condition.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES, LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Maintenance Facility under Work Order No 840 dated .

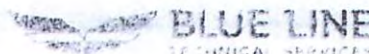
Date: 12/16/2022

Signature: *Paul Weismann*

Work Order: 840

AP Number: *A-P 3269270 1A*

Registration #: N421BL
 Manufacturer: Austro
 Serial No: E4-C-00708
 Part/Model No: E4C
 Work Order No: 2157



TACH: 873.50
 HOBBS: 281.00
 A/C Total Time: 873.50
 Engine TSN: 873.50
 Date: 01/24/2024

- 100 engine Annual inspection. Removed cowlings and inspected engine. Ground run and leak check good. Checked all ADs for compliance. I certify this engine was inspected IAW an Annual inspection per FAR 43 App. D and Austro MM and was determined to be in an airworthy condition.
- Performed 100/300 hour servicing. Drained engine oil. Serviced engine with 7qts Castrol Edge 5W-30 A3/B4 and new oil filter (P/N: E4A-52-000-KIT). Serviced coolant system with Zerex G48 coolant. Replaced fuel filter with new (P/N: WK724-3). Serviced gearbox with new Sorex gear oil and replaced fill and drain sealing rings (P/N: E4A-70-000-825). Replaced gearbox filter with new (P/N: E4A-70-000-806). Leak check good.
- AD 20-14-07 C/W at this time by replacing fuel injectors with new 4 ea (P/N: E4A-35-100-000), new screws 4 ea (P/N: E4A-03-000-251), and new gaskets 4 ea (P/N: E4A-03-000-801). Next due 1773.5TT. No windmill starts reported.
- Pulled oil sample for analysis.
- Updated ECU software to version 2.0.

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES, LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Maintenance Facility under Work Order No 2157 dated 1/20/2024

Date: 1/24/2024

Signature: *Paul Weismann*

Work Order: 2157

AP Number: *A-P 11A*

Section 3A: Engine Service and Maintenance Log

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

READING & NORTHERN AVIATION 223 WEST APRON DRIVE Reading, PA 19605
 LOG ID# 2901 08-May-2025 WO# 13548/2 REF# 13548 AC TT 912.7
 N421BL S/N 42.N388 DA 42 NG

Pg 1 / 1

**** ITEM # 13548-2 PERFORM AN ANNUAL ENGINE INSPECTION ON L ****
 DISCREPANCY: PERFORM AN ANNUAL ENGINE INSPECTION ON L/H ENGINE IN ACCORDANCE WITH FAR 43 APPENDIX
 (D) WITH REFERENCE TO THE MANUFACTURES CHECKLIST
 ACTION: DEFERRED TO SERVICE CENTER, NO ACTION TAKEN.
 DRAINED ENGINE OIL AND TOOK SAMPLE. SERVICED ENGINE WITH 7 QUARTS OF AEROSHELL DIESEL ULTRA.

Peter T. Collins 5/8/2025
 A-P3557961IA PETER COLLINS Date



3330 AIRPORT LC
 SALISBURY, NC 281
 INFO@SOUTHTTECAVIATION.CO
 OFFICE: 704-431-61

DATE: JUNE 24, 2025 | AUSTRO | LEFT ENGINE | S/N: E4-C-00708 | REG: N421BL
 TACH: 914.8 HRS. TTE: 914.8 HRS.

100HR/ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT DA42 NG AMM AND
 AUSTRO ENGINE MAINTENANCE MANUAL.

AIRWORTHINESS DIRECTIVES CHECKED THROUGH BIWEEKLEY DATE 2025-12

- PERFORMED OIL CHANGE.
- CUT OIL FILTER, INSPECTED FOR METAL, NONE NOTED.
- COLLECTED OIL SAMPLE FOR ANALYSIS TO BE COMPLETED BY BLACKSTONE LABORATORIES.
- REFILLED WITH 7 LITERS AEROSHELL DIESEL ULTRA 5W-30.
- REPLACED OIL FILTER, P/N:(E4A-52-300-KIT).
- REPLACED FUEL FILTER, P/N:(WK724_3). NEXT DUE 200HRS OR 6/24/2025. ←
- CHECKED GEARBOX MAGNETIC PLUG FOR METAL. NO METAL NOTED.
- DRAINED AND STRAINED GEAR BOX OIL. INSTALLED NEW GEARBOX FILTER.
- PERFORMED CHECKED ECU EVENT LOGS NO FAULTS NOTED.
- RESECURED, ADDED ANTICHAFFE TAPE, AND ADJUSTED HOSES AND LINES AS NECESSARY TO PREVENT CHAFING.
- REPLACED ENGINE INDUCTION FILTER BOX BRACKET LOWER SHOCK 2 MOUNTS.
- REPLACED INDUCTION FILTER WITH NEW P/N: [RU-1620].
- REMOVED AND REINSTALLED INJECTOR COVER TO FACILITATE REAPPLICATION OF FIRE PROTECTION PAINT.

GROUND RAN ENGINE AND TESTED FOR OPERATION AND LEAKS, NO FAULTS NOTED.

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

Timothy D Jordan
 TIMOTHY D JORDAN

A&P/IA 3264477

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Engine Log Book

Motor Logbuch



Austro Engine

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E4-C-00708 LH

Baumuster: Type of engine:	E4	Baureihe: Model:	E4	Motor - Nr.: Engine serial no:	E4-C-00708
Hersteller: Manufacturer:	Austro Engine GmbH A-2700 Wiener Neustadt, Rudolf-Diesel-Straße 11, Austria				
Kennblatt: Data sheet:	EASA.E.200			Baujahr: Year of manufacture:	2019
Der oben bezeichnete Motor ist als betriebstüchtig anzusehen, wenn er gemäß der Zivilluftfahrt- und Luftfahrtgeräte-Verordnung, letztgültige Ausgabe und den Betriebs- und Wartungsanweisungen entsprechend betrieben und gewartet wird. <i>The above mentioned engine is considered to be operationally reliable if operated and maintained in accordance with the civil aviation regulations, latest legal issue and the pertinent operational and maintenance instructions.</i>					
Bemerkungen: Remarks: Jedes Wartungsereignis, als auch ein Komponenten Tausch muss im Engine Log dokumentiert werden. <i>Please note that every performed maintenance as well as component replacements have to be documented in the log book.</i>					
Prüflauf durchgeführt Test run carried out.					
Datum: Date:	29 OCT 2019				



Baumuster: Type of engine:	E4	Baureihe: Model:	E4	Motor - Nr.: Engine serial no:	E4-C-00708	2
Motor Hauptkomponenten / Engine main components						
Bezeichnung Designation	Teil Nummer Part number	Revision Revision	Seriennummer Serial number	TSN		
Motorsteuergerät Engine Electronic Control Unit Hardware	E4A-92-100-000	AB1	3170	00:00		
Motorsteuergerät Software Vers. Engine Electronic Control Unit Software	E4C-92-200-000	AC1	VC33_2_06_23	00:00		
Glühstift Kontroll Box Glow Plug Control Unit	E4A-94-200-000	AA2	003172	00:00		
Motor Kabelbaum Engine Harness	E4B-95-000-000	AB1	EWO191500	00:00		
Generator Generator	E4A-91-400-000	AB1	02245	00:00		
Getriebe Gearbox	E4A-70-000-000	AC1	3298	00:00		
Kraftstoff Hochdruckpumpe High Pressure Fuel Pump	E4A-30-200-000	010	12-01-11-03-01265	00:00		
Kraftstoff Verteilerleitung Common Rail	E4A-33-100-000	AA2	1209500036	00:00		
Turbolader Turbocharger	E4C-00-410-000	AB1	VD5003339700052	00:00		
Schwungrad Fly Wheel	E4A-73-300-000	AB1	03759	00:00		
Fuel Injekt. IMA Code #1 #2 #3 #4 Fuel Inject. IMA-Code #1 #2 #3 #4	E4A-35-000-000	000	#1: 78ZK6I, #2: AH87IN, #3: 6G8T7W, #4: 8ZICF1;	00:00		
Datum: 29 OCT 2019 Date: 						

SN: E4-C-00708

Status Service Bulletin (SB), Airworthiness Directives (AD) & Service Informations (SI) / Record of engine modification status

SB-No	Title	Status	SB-No	Title	Status
MSB-E4-002/2	Configuration Specification of the E4 Engine	performed, no open action	RSB-E4-016/1	Oil dip stick	Only for information
MSB-E4-003/23	SW u. HW Versions of the E4 Engine	performed, no open action	RSB-E4-018	Inspection of engine harness	Only for information
MSB-E4-004/1	Long term conservation of E4 Engines	performed, no open action	RSB-E4-021	Fuel Pressure Sensor - Connector modification	Only for information
MSB-E4-006	Repair of sensor cable for camshaft sensor	N/A	RSB-E4-024	Waste Gate - Spring loaded circlip	Only for information
MSB-E4-007/6	Replacement of waste gate controller	N/A	OSB-E4-019/3	Gearbox Oil Cooler	Only for information
MSB-E4-008/2	Exchange of oil separator hose	N/A			
MSB-E4-009/2	Replacement of high pressure pump	N/A			
MSB-E4-013/1	Gearbox oil inspection	N/A			
MSB-E4-014/2	Replacement of the fuel return line	N/A			
MSB-E4-017/2	Check/Exchange of timing chain	Considered for next action see this MSB			
MSB-E4-020	Inspection of Gearbox Housing	N/A			
MSB-E4-022/5	Waste Gate Control Rod	performed, no open action			
MSB-E4-024/1	Waste gate - Spring loaded circlip	performed, no open action			
MSB-E4-025/3	Fuel injectors	Considered for next action see this MSB			
MSB-E4-025/1	Inspection of Engine Harness	N/A			
AD-No	Title	Status	SI-No	Title	Status
EASA AD 2013-0025 R1	Superseded by EASA AD 2013-0213	Only for information	SI-E4-001/2	Life time and TBO extension	Only for information
EASA AD 2013-0213 R1	Replacement of waste gate controller (MSB-E4-007/6)	N/A	SI-E4-002	Gearbox oil check procedure update	Only for information
EASA AD 2010-0206	Superseded by EASA AD 2011-0039	Only for information	SI-E4-003	Technical publication and reporting system of AE	Only for information
EASA AD 2011-0039	Replacement of high pressure pump (MSB-E4-009/2)	N/A	SI-E4-004	EECU venting element	Only for information
EASA AD 2017-0103R1	Engine Timing Chain Replacement	Considered for next action see this MSB	SI-E4-006	New Revision - Index for part numbers	Only for information
EASA AD 2017-0250	Superseded by EASA AD 2018-0125	Only for information	SI-E4-007	Proper handling of Turbo Charger	Only for information
EASA AD 2018-0125	Turbocharger Waste Gate Controller and Control Rod Circlip	performed, no open action	SI-E4-009	Two-Mass Flywheel and Hub	Only for information
EASA AD 2019-0041	Time Limits / Maintenance Checks-Airwor. Lim. Sec. Amendm	Considered for next action see this MSB	SI-E4-010	Caution of foreign Object Ingestion during Maintenance	Only for information
FAA AD 2011-18-19	Replacement of high pressure pump (MSB-E4-009/2)	N/A	SI-E4-011	Waste Gate Bridge installed in Engines under US Regi	Only for information
FAA AD 2014-08-10	Replacement of waste gate controller (MSB-E4-007/6)	N/A			
CAAC CAD2013-DA42-01R1	Replacement of waste gate controller (MSB-E4-007/6)	N/A			
CAD2017-MULT-36	Engine Timing Chain Replacement	Considered for next action see this MSB			
Amnd No. 39-9090					
The engine modification status consists of the applicable revision of the Type Design Definition, the Build Manual and additional installed approved design changes.					
Type Design Definition: E4.08.01 Rev. 12			Build Manual: E4.08.02 Rev. 20		
Design changes:			MDC-E4-379; MDC-E4-391a; MDC-E4-401; MDC-E4-407a; MDC-E4-412; MDC-E4-414; MDC-E4-424; MDC-E4-425; MDC-E4-427; MDC-E4-448a; MDC-E4-450; MDC-E4-452; MDC-E4-455; MDC-E4-473; MDC-E4-475; MDC-E4-476; MDC-E4-480; MDC-E4-481; MDC-E4-500b; MDC-E4-507a; MDC-E4-517; BM-TR-MDC-E4-491; BM-TR-MDC-E4-496a; BM-TR-MDC-E4-503;		
Date	Signature of Certifying Staff		Signature		
29 OCT 2019					

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Änderungsstand / Modification record**Lufttüchtigkeitsanweisung bzw. Änderung:**
*Airworthiness directive or modification:***Ges. Std.:**
*TSN:***Datum:**
*Date:***Unterschrift & Lizenz Nr.:**
*Signature & License no.:*NSB - 64-003125 "Software and
hardware revisions" per form EOL

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15.1.20

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