

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 AE051907	
4. Organisation Name and Address		Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wr. Neustadt, AUSTRIA		5. Work Order / Contract / Invoice ES243453	

6. Item	7. Description	8. Part No.	9. Quantity	10. Serial No.	11. Status / Work
1	E4PC Engine	E4PC-00-000-BHY Iss. 008	1	E4P-C-06540	New

12. Remarks
Item 1 The engine conforms to EASA TCDS E.200 Issue 12; Damper assy P/N: D44-7306-30-00_1 (EASA Form1: AJ98867).
Item 1 Fuel hose assy P/N: A24119-01 (EASA Form1: 250721). Cleaned and installed acc. AE APA_Pulsationsdämpfer-Aufbau_190618.
Item 1 Pistons p/n E4A-72-400-000 Rev. AD3 are installed with a life time limitation to 900FH.

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) 10 OCT 2024	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: | E4P-C |
| 3. Specification: | E00081EN |
| 4. Manufacturer's Serial Number: | E4P-C-06540 |
| 5. Date of Manufacture: | OCTOBER 10 2024 |
| 6. Aircraft Inspection Cycle: | |





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

Registration: N535LA
AC Serial Number: 62 C095
LH Engine Serial Number: E4P-C-06540
RH Engine Serial Number: E4P-C-06546
LH Prop Serial Number: 241930
RH Prop Serial Number: 241934
Airframe Total Time: 4.8 HRS

- LH Engine Total Time brought forward from Production Test Flight Journey Log (DAI - Form Q-224): 4.8 HRS
- LH Engine installed new on Aircraft DA 62, S/N: 62.C095
- Bi-weekly AWD check carried out to current revision 2025-03 all applicable AD's complied with, see attached.
- The work described above was carried out in accordance with the applicable Standard of Airworthiness.

Inspector



FEB 12 2025

date

(Intentionally left blank below this point)



TTSN: 4.8

30 Day Engine Run - Accomplished

Date FEB 24 2025 Signed:



3330 AIRPORT LOOP
SALISBURY, NC 28147
INFO@SOUTHTECAVIATION.COM
OFFICE: 704-431-6862

DATE: SEPTEMBER 5, 2025 | AUSTRO ENGINE | LEFT ENGINE | S/N: E4P-C-06540 | REG: N535LA
TACH: 96.4 HRS. TTE: 96.4 HRS.

-AD 24-19-10 COMPLIED WITH IN ACCORDANCE WITH AUSTRO MSB-E4-043/2 PISTON
BOREScope INSPECTION. PULLED INJECTOR COVER AND INJECTORS FOR ACCESS.
PERFORMED THOROUGH INSPECTION OF PISTON CROWN NO CRACKS FOUND AT THIS TIME.
USING KIT P/N: MSB-E4043-KIT REINSTALLED INJECTOR COVER AND INJECTORS. NEXT DUE AT
TACH 146.4 HRS ±10 FH.

-PERFORMED SATISFACTORY ENGINE RUN. NO FAULTS OR LEAKS NOTED.

ALL WORK PERFORMED I.A.W DA-62 MAINTENANCE MANUAL AND AUSTRO E4 SERIES
MAINTENANCE MANUAL.

LUKE C WALTERS

A&P 4778771

THIS PAGE TOTALS					
PREVIOUS TOTALS					
TOTALS SINCE NEW					

CARRY FORWARD to Top of Next Page



3330 AIRPORT LOOP
SALISBURY, NC 28147
OFFICE: 704-431-6862
INFO@SOUTHTECAVIATION.COM

A1

NCE:

or
ACA

DATE: SEPTEMBER 8, 2025 | AUSTRO E4P-C | LH ENG S/N: E4P-C-06540 | REG: N535LA
TACH: 96.4 HRS TTE: 96.4 HRS

100 HOUR INSPECTION COMPLETED THIS DATE USING DIAMOND AIRCRAFT DA62 INSPECTION CHECKLIST AND AUSTRO E4 100HR INSPECTION CHECKLIST.

CHECKED AD'S THROUGH 2025-18 .

AD 24-19-10 PISTON CRACKS LEADING TO ENGINE FAILURES, PCW SEE LOG DATED 09/05/2025. **NEXT DUE @ TACH: 146.4 HRS.**

- COMPLIED WITH AUSTRO ENGINE 100 HOUR INSPECTION CHECKLIST.
- DRAINED AND STRAINED GEARBOX OIL.
- INSPECTED GEARBOX OIL FILTER. NO DEFECTS NOTED.
- COLLECTED OIL SAMPLE FOR ANALYSIS TO BE PERFORMED BY BLACKSTONE LABORATORIES.
- CUT ENGINE OIL FILTER. INSPECTED, NO METAL NOTED.
- CHANGED OIL AND SERVICED ENGINE WITH 7 QTS OF AEROSHELL DIESEL ULTRA.
- REPLACED FUEL FILTER, P/N: (WK724-3).
- REMOVED HPP, RE-SEALED AND RE-INSTALLED.
- ALL WORK PERFORMED USING AUSTRO E4 SERIES MAINTENANCE MANUAL. SATISFACTORY OPERATIONAL CHECK REGARDING THE WORK PERFORMED.

GROUND RAN ENGINE, NO FAULTS NOTED.

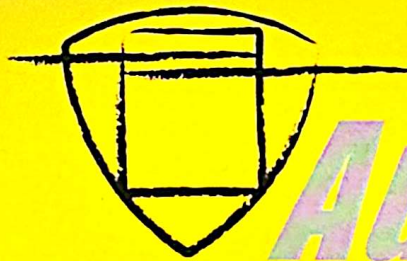
I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN 100 HOUR INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

YANLUIS MARTINEZ VAZQUEZ

AP 4990598

Engine Log Book

Motor Logbuch



Austro Engine

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Baumuster: Type of Engine:	E4	Baureihe: Model:	E4P	Motor - Nr.: Engine serial no:	E4P-C-06540	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:	2024	
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:	10 OCT 2024			Unterschrift Signature:	 	

Baumuster: Type of Engine:	E4	Baureihe: Model:	E4P	Motor - Nr.: Engine serial no:	E4P-C-06540	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	AD1	6531	00:00
Engine Electronic Control Unit Software	E4PC-92-20A-000	AA1	VC33_2P_07_26-01	00:00
Glow Plug Control Unit	E4A-94-200-000	AC1	000062	00:00
Engine Harness	E4B-95-000-000	AH5	EWO243207	00:00
Generator	E4A-91-400-000	AB2	06236	00:00
Gearbox	E4A-70-000-000-OC	AH5	06753	00:00
High Pressure Fuel Pump	E4A-30-000-BHY	AA4	23-10-12-02-01574	00:00
Common Rail	E4A-33-100-000	AB1	2415500009	00:00
System turbocharger and BPA	E4C-00-410-BHY	AC3	AE6085670500082	00:00
Fly Wheel	E4A-73-300-000	AB1	09086	00:00
Fuel Inject. IMA-Code #1 #2 #3 #4	E4A-35-100-000.	AA1	#1: AY85FW; #2: CARPGS; #3: CZSGDW; #4: 84ZCD5	00:00
Core Engine	E4A-00-M01-BHY_AE	AD5	04035	00:00
Assy Pistons #1 #2 #3 #4	E4A-72-400-000	AD3	#1: 009950; #2: 009855; #3: 010241; #4: 010020	00:00
Water pump	E4A-60-000-000	AA4	EWO243815	00:00

Datum: 10 OCT 2024
Date:

Unterschrift
Signature:



SN: E4P-C-06540

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Airworthiness Directives (AD) / Record of engine modification status

EASA AD-No	Title	Status	FAA AD-No	Title	Status
EASA AD 2011-0039	Replacement of high pressure pump (MSB-E4-009/2)	N/A by part number	FAA AD 2011-18-19	Replacement of high pressure pump (MSB-E4-009/2)	N/A by part number
EASA AD 2013-0213R1	Replacement of waste gate controller (MSB-E4-007/6)	N/A by revision	FAA AD 2014-08-10	Replacement of waste gate controller (MSB-E4-007/6)	N/A by revision
EASA AD 2017-0103R1	Engine Timing Chain Replacement (MSB-E4-017/2)	Considered, for next action see MSB	FAA AD 2020-14-07	Fuel Control/Reciprocating Engines and Reciprocating Engine Power Section	Considered, for next action see this MSB
EASA AD 2018-0125	Turbocharger Waste Gate Controller and Control Rod Circlip	performed, no open action	FAA AD 2020-22-14	Reciprocating Engine Supercharger	performed, no open action
EASA AD 2019-0041	Time Limits / Maintenance Checks-Airwor. Lim. Sec.-Amendm.	Considered, for next action see MSB	FAA AD 2020-15-05	Reciprocating Engine Power Section (MSB-E4-017/2)	Considered, for next action see MSB
EASA AD 2021-0094	Engine - Oil Pump - Replacement	N/A by part number	FAA AD 2021-17-01	Reciprocating Engine Oil System	N/A by part number
EASA AD 2021-0191-E	Engine - Oil Pump - Replacement	N/A by part number	FAA AD 2021-24-10	Reciprocating Engine Oil System	N/A by part number
EASA AD 2021-0274-E	Engine- High Pressure Pump Driving Gear- Inspection/ Replacement	N/A by revision	FAA AD 2022-03-03	Reciprocating Engine Power Section	N/A by revision
EASA AD 2023-0163	Engine - Pistons - Oil Analysis / Replacement	N/A by serial number	FAA AD 2023-20-03	Reciprocating Engine Cylinder Section, Reciprocating Engine Oil System	N/A by serial number
EASA AD 2024-0037R1	Engine - Main Bearing / Studs Replacement	N/A by serial number	FAA AD 2024-05-01	Reciprocating Engine Power Section	N/A by serial number
EASA AD 2024-0172-E	Engine - Piston - Inspection / Replacement	Considered, for next action see MSB	FAA AD 2024-19-10	Engine (Reciprocating)	Considered, for next action see MSB
CAAC CAD-No	Title	Status			
CAAC CAD2013-DA42-01R1	更换发动机废气门控制器 (ref. EASA_2013-0025R1) (SUPERSEDED BY EASA AD 2013-0213R1)	N/A by part number			
CAAC CAD2014-DA42-01	更换发动机废气门控制器 (ref. EASA_2013-0213R1)	N/A by revision			
CAAC CAD2018-MULT-34	发动机-涡轮增压器废气门控制器和控制杆弹性挡圈-寿命限制/改装 (ref. EASA_2018-0125)	performed, no open action			
CAAC CAD2021-MULT-84	发动机-高压泵驱动齿轮及相关部件-检查/更换 (ref. EASA_AD_2021_0274_E)	N/A by revision			
CAAC CAD2023-MULT-45	发动机-活塞-滑油分析/更换 (ref. EASA AD 2023-0163)	N/A by serial number			
CAAC CAD2024-MULT-07R1	发动机-主轴承/螺栓-更换 (ref. EASA AD 2024-0037-R1)	N/A by serial number			
CAAC CAD2024-MULT-46	标题: 发动机-活塞-检查/更换 (ref. EASA AD 2024-0172-E)	Considered, for next action see MSB			

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. 7

Build Manual: E4.08.02 Rev. 23

Design changes:

MDC-E4-609; MDC-E4-648c; MDC-E4-679; MDC-E4-680a; MDC-E4-689; MDC-E4-701g; MDC-E4-709; MDC-E4-710; MDC-E4-719c; MDC-E4-740b; MDC-E4-741; MDC-E4-743; MDC-E4-750; MDC-E4-767a; MDC-E4-776; MDC-E4-779b; MDC-E4-804a; MDC-E4-807; MDC-E4-813; MDC-E4-819a; MDC-E4-822a; MDC-E4-839; MDC-E4-852a; MDC-E4-868; MDC-E4-871a; MDC-E4-893a; MDC-E4-918a;

BM-TR:

BM-TR-MDC-E4-740; BM-TR-MDC-E4-819;

Date:

10 OCT 2024

Signature:



SN: E4P-C-06540

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Status Service Bulletin (SB), & Service Informations (SI)

MSB-No	Title	Status	SB-No	Title	Status
MSB-E4-002/3	Configuration Specification of the E4 Engine	performed, no open action	RSB-E4-016/1	Oil dip stick	N/A by revision
MSB-E4-003/30	Software and hardware versions of the E4 engine series	Considered, for next action see this MSB	RSB-E4-018	Inspection of engine harness	considered, for next action see RSB-E4-018
			RSB-E4-021/1	Fuel Pressure Sensor - Connector modification	N/A by part number
MSB-E4-004/1	Long term conservation of E4 Engines	performed, no open action	RSB-E4-028/3	Installation of new sensors AEP-00284-901 for OPS and FPS	performed, no open action
MSB-E4-006	Repair of sensor cable for camshaft sensor	N/A by serial number	RSB-E4-032/1	Installation of new sensors AEP-00286-901 for BSP	performed, no open action
MSB-E4-007/6	Replacement of waste gate controller	N/A by serial number		Loccite on flywheel hub mounting screws	N/A by serial number
MSB-E4-008/2	Exchange of oil separator hose	N/A by serial number	RSB-E4-037/2	Flywheel Hub inspection for cracks	N/A by part number
MSB-E4-009/2	Replacement of high pressure pump	N/A by part number	RSB-E4-038/1	HPP oil leakage	N/A by serial number
MSB-E4-013/1	Gearbox oil inspection	N/A by serial number	OSB-E4-040	Gearbox Oil Cooler	Only for information
MSB-E4-014/2	Replacement of the fuel return line	N/A by serial number	OSB-E4-033/3	Oil pump inspection to check serviceability	N/A by part number
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 by revision			
MSB-E4-022/5	Waste Gate Control Rod	performed, no open action	SI-No	Title	Status
MSB-E4-024/1	Waste gate - Spring loaded circlip	performed, no open action	SI-E4-001/2	Life time and TBO extension	Only for information
			SI-E4-002	Gearbox oil check procedure update	Only for information
MSB-E4-025/3	Fuel injectors	Considered, for next action see this MSB	SI-E4-003	Technical publication and reporting system of AE	Only for information
			SI-E4-004	EECU venting element	Only for information
MSB-E4-026/1	Inspection of Engine Harness	N/A by serial number	SI-E4-006	New Revision - Index for part numbers	Only for information
MSB-E4-028/3	Oil return line pipe	N/A by serial number	SI-E4-007	Proper handling of Turbo Charger	Only for information
MSB-E4-029/2	Modification of pressure valve hose for damping pressure oscillation	N/A by serial number	SI-E4-009	Two-Mass Flywheel and Hub	Only for information
			SI-E4-010	Caution of foreign Object Ingestion during Maintenance	Only for information
MSB-E4-030/4	Oilpump replacement	N/A by serial number	SI-E4-011	AMOC Waste gate con-rod	Only for information
MSB-E4-031/2	Oilpump replacement	N/A by serial number	SI-E4-013/1	Oil sampling	Only for information
MSB-E4-034/4	superseded by MSB-E4-036	N/A by serial number	SI-E4-014	EECU Data Log	Only for information
			SI-E4-015	Handling and storage condition of spare parts	Only for information
MSB-E4-035/2	superseded by MSB-E4-036	N/A by revision	SI-E4-016/1	Cylinder head identification - Alternative methods	Only for information
MSB-E4-036/1	High Pressure Pump (HPP) Inspection and Replacement	N/A by revision	SI-E4-018	High Pressure Pump (HPP) driving gear identification	Only for information
			SI-E4-020	Engine Shock Loads Definitions and Service Instructions	Only for information
MSB-E4-039/3	Oil Analysis and Piston replacement	N/A by serial number	SI-E4-022/1	Parts Shelf Life	Only for information
			SI-E4-023	FMU Adjustment	Only for information
MSB-E4-042/1	Crankshaft-bearing cap screws replacement	N/A by serial number	SI-E4-024	Side cover thread rework	Only for information
			SI-E4-025	Engine oil replacement and analysis	Only for information
			SI-E4-026	Engine/Parts Return Shipping Information	Only for information
			SI-E4-027	Engine Operation, Maintenance and Preservation	Only for information
			SI-E4-028	Engine Operation with Sustainable Aviation Fuels (SAF)	Only for information

Date:

10 OCT 2024

Signature:



S/N: E4P-C-06540

Airworthiness Directives (AD) / Record of engine modification status

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EASA AD-No	Title	Status

FAA AD- No	Title	Status

Status Service Bulletin (SB)

MSB-No	Title	Status
MSB-E4-043/1	Piston Borescope inspection	Not complied with

SB-No	Title	Status
OSB-E4-041	FMU Backshell Adjustment	Not complied with

Date:

February 12, 2025

Signature:

