

AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG

ENGINE LOG

- | | |
|----------------------------------|--------------------|
| 1. Make: | Austro Engine GmbH |
| 2. Model: | E4P |
| 3. Specification: | EASA.E.200 |
| 4. Manufacturer's Serial Number: | E4P-C-06063 |
| 5. Date of Manufacture: | August 2021 |
| 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 IND.
D.O.T. APPROVED MAINTENANCE
ORGANIZATION161-93

Registration: N684AB AC Serial Number: 62.170
Airframe Total Time: 33.9 H Work Order: SO 072892
Engine LH SN: E4P-C-06063 Engine LH TT: 33.9 H

- Engine E4P, S/N: E4P-C-06063, installed on Aircraft DA 62 S/N: 62.170, LEFT
- Total Time Engine brought forward: 33.9 hrs.
- EECU software installed: VC33_2P_06_24
- 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 2021-23
- FAA AD 2021-22-20 Found previously complied with by Austro engine October 4, 2021.
- IAW Austro OSB-E4-033/1 Engine oil pump SN: 12016300126 to be replaced at 600 hours Engine TT.
- 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: NOV 18 2021



DIAMOND AIRCRAFT IND.
D.O.T. APPROVED MAINTENANCE
ORGANIZATION161-93

Registration: N684AB AC Serial Number: 62.170
Airframe Total Time: 33.9 Work Order: SO 072892
Engine LH SN: E4P-C-06063 Engine RH SN: E4P-C-06064
Engine LH TT: 33.9 Engine RH TT: 33.9
Prop LH SN: 210731 Prop RH SN: 210732
Prop LH TT: 33.9 Prop RH TT: 33.9

The Following LH Engine Maintenance was Performed:

- HPP removed, HPP gear and camshaft gear inspected and HPP re-installed using MSB-E4-034/4 and MSB-E4-035/2 as reference.
- Gearbox oil level adjusted IAW Austro AMM Ch. 12-10-00 B.

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



Date: NOV 22 2021

END.



DIAMOND AIRCRAFT IND.
D.O.T. APPROVED MAINTENANCE
ORGANIZATION161-93

Registration: N684AB AC Serial Number: 62.170
Airframe Total Time: 37.2 Work Order: SO 072892
Engine LH SN: E4P-C-06063 Engine RH SN: E4P-C-06064
Engine LH TT: 37.2 Engine RH TT: 37.2
Prop LH SN: 210731 Prop RH SN: 210732
Prop LH TT: 37.2 Prop RH TT: 37.2

The Following Work Was Performed:

- verified compliance of FAA AD 2021-24-10. Found previously complied with by Austro Engine August 24, 2021.
- Austro engine MSB-E4-036 inspected for compliance and found N/A. Current HPP driving gear installed on LH/RH engines is PN: E4A-30-000-201 Rev. AE.1.

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



Date: DEC 06 2021

END.

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PREVIOUS TOTALS

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ARAPAHOE AERO

12760 EAST CONTROL TOWER ROAD ENGLEWOOD, COLORADO 80112 (303) 799-8386

N684AB

Austro

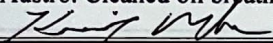
E4P-C-06063

Left Engine Total Time: 103.4

13 May 2022

Tach: 103.4

Completed 100-hour engine service (E4A-52-000-KIT1). Changed engine oil and filter (Aeroshell Diesel Ultra). Oil sample taken and submitted. Drained gear box oil through a screen, cleaned gear box filter and reinstalled, no contaminants noted. Installed a new fuel filter. Downloaded ECU engine data and submitted to Austro. Cleaned oil breather line adapter. Ground run up, leak check and operational check good.



Kevin Mosher A&P3443784

w/o 43325

ENCE:

ME or
O/ACA**ABSOLUTE AERO**

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

ENGINE ENTRY

WORK ORDER: 3866 AIRCRAFT: N684AB TACH: 188.5 TSOH: N/A TTE: 188.5

DATE: 01/05/2023

L/H ENGINE MODEL: Austro E4P-C S/N: E4P-C-06063

Completed FAR 43 Appendix D 100-hour inspection and servicing referencing Austro E4 MM Chapter 05-20-00 using service kit (P/N: DA42-AE-100KIT). Drained and sampled oil. Removed and replaced oil filter with new. Examined old oil filter element, no contaminants found. Serviced engine with 7 liters of Aeroshell Diesel Ultra oil. Drained and sampled gearbox oil. Inspected old gearbox oil filter and magnetic drain plug. Reinstalled gearbox oil filter and serviced the gearbox to fill using new Shell Spirax S6 GXME 75W80 oil. Pressure tested coolant system. Solvent washed engine. Ground ran engine, leak and ops check good. No defects noted at this time. Downloaded ECU engine log file and event recorder. C/W Austro MSB-E4-003/27 "ECU software" by ECU software update. C/W Austro MSB-E4-039 "Oil analysis and piston replacement" and verified engine is GROUP 4. Piston or engine core replacement is due at TTE: 1000.0. Obtained initial oil sample and sent to Spectro Jet-Care for analysis. Aluminum result: 3ppm. In accordance with MSB-E4-039, this sample is inside the 8ppm limit. Next oil sample due Tach: 288.5. Verified AD's current through FAA AD biweekly 2023-01. All work completed in accordance with the Diamond DA 62 Maintenance Manual and the Austro E4 Maintenance Manual. -END

I certify that this engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.

Jesse Case A&P / IA 3772878

**ABSOLUTE AERO**

MAINTENANCE

21889 Skywest Drive, Hayward, CA 94541 · 510 782-6591

ENGINE ENTRY

WORK ORDER: 4279 AIRCRAFT: N684AB TACH: 296.4 TSOH: N/A TTE: 296.4

DATE: 12/22/2023

L/H ENGINE MODEL: Austro E4P-C S/N: E4P-C-06063

Completed FAR 43 Appendix D 100-hour inspection and servicing. Completed all Austro E4 MM 05-20-00 300-hour servicing, alternator inspection, fuel injector cover zonal inspection, dual mass flywheel inspection, and fuel filter replacement using kit (P/N: DA42-AE-100KIT). Reinstalled dual mass flywheel using new screws (8EA P/N: E4A-73-000-801). Reinstalled gearbox using new hardware. Drained and sampled oil. Removed and replaced oil filter with new. Examined old oil filter element, no contaminants found. Serviced engine with 7 liters of Aeroshell Diesel Ultra oil. Drained and sampled gearbox oil. Inspected old gearbox oil filter and magnetic drain plug. Replaced gearbox oil filter with new (P/N: E4A-73-000-801) and serviced the gearbox to fill using new Shell Spirax S6 GXME 75W80 oil. Drained coolant to facilitate gearbox removal. Serviced engine with same coolant and pressure tested coolant system. Replaced the engine oil filter inlet fitting gasket with new (P/N: DIN7603-A12X16-AL). Solvent washed engine. Ground ran engine, leak and ops check good. No defects noted at this time. Downloaded ECU engine log file and event recorder. C/W Austro MSB-E4-003/30 "ECU software" by ECU software update. C/W AD 2023-20-03 "engine oil analysis and piston replacement" IAW Austro MSB-E4-039/1. Sent oil sample to Spectro Jet-Care for analysis. Aluminum result: 1ppm. In accordance with MSB-E4-039, this sample is inside the 8ppm limit. Next sample due Tach: 396.4. Piston replacement due before Tach: 1000.0. Verified AD's current through FAA AD biweekly 2023-26. All work completed in accordance with the Diamond DA 62 Maintenance Manual and the Austro E4 Maintenance Manual. -END

I certify that this engine has been inspected in accordance with FAR 43 Appendix D (100 Hour Inspection) and has been determined to be in an airworthy condition.

Jesse Case A&P / IA 3772878

Section 3A: Engine Service and Maintenance Log

ENGINE MODEL: AE330
ENGINE S/N (L): E4P-C-06063
REG. NO: N684AB
WORK ORDER: 1133



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 8/26/2024
A/C TSN: 400.8
ENG TT (L): 400.8
TACH: 400.8

Left Engine Entries

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

DATE: 8/26/2024

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 1133

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ENGINE MODEL: AE330
ENGINE S/N (L): E4P-C-06063
REG. NO: N684AB
WORK ORDER: 1265



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 1/16/2025
A/C TSN: 420.4
ENG TT (L): 420.4
TACH: 420.4

Left Engine Entries

- Performed 100 Hour Inspection using DA62 AMM as a guide
- Changed oil and filter. Serviced engine with Aeroshell Diesel Ultra
- Inspected gearbox chip collector

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

DATE: 1/16/2025

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 1265

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N648AB

LH Engine Log BK

DATE: August 25, 2025 AFTTIS: 516.1 P/N: E4P
SN: E4P-C-06063 ETTIS: 516.1 ETTSO: 516.1

Performed 100HR LH Engine inspection IAW Diamond DA62 AMM and Austro Engine E4 Series MM. Removed and replaced voltage regulator (S/N 80R91119, 1ea) for (S/N 81204023, 1ea). Performed 1000HR LH Engine inspection of fuel pre-filters and main fuel filter IAW Diamond DA62 AMM and Austro Engine E4 Series MM. Removed and replaced main fuel filter (P/N WK724-3, 1ea). Performed engine operational check with no leaks or discrepancies noted.

I certify that this LH Engine has been inspected in accordance with Diamond DA62 Aircraft Maintenance Manual and Austro Engine E4 Series Maintenance Manual inspection criteria and was determined to be in airworthy condition.

Kristoffer Gracia A&P 5106065

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TOTALS

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CARRY FORWARD to Top of Next Page

01/28/2026 Austro E4P S/N E4P-C-06063 Air Time 538.60 TTIS 538.60 TSOH 538.60

E:

Performed 100 Hr inspection of LH engine IAW Diamond DA62 AMM, Austro MM E4 Series E4.08.04, Austro OM E4 E4.01.01, and FAR 43.13 appendix D. Drained engine oil and reserviced engine oil with 7L of Aeroshell Oil Diesel Ultra 5W-30. Removed engine oil filter, inspected, and replaced with new oil filter (P/N: HU 615/3X). Drained gear box oil and reserviced gearbox with 2.3L of Shell Spirax S6 GXME 75W-80. Removed gearbox oil filter, inspected, and replaced with new gearbox oil filter (P/N: E4A-70-000-806). Removed fuel filter body and replaced with new fuel filter body (P/N: WK724/3). Serviced coolant reservoir with Valvoline Zerex G48. Complied with MSB 62-045 Rev. 2 inspection of starter wiring, no defects noted. Complied with MSB 62-002. Verified Engine software version is VC33_2P_07_26 for hardware version AE on LH engine FADEC. Performed engine ground test run, no defects found, engine operating with parameters, with no leaks detected on work performed. Performed AD records review, C/W AD 2025-02-12 collection of engine oil sample IAW MSB-E4-039/3. No other AD's due at this time.

I certify that this engine has been inspected in accordance with Diamond and Austro inspection and is determined to be returned to service.

Austin Hampton A&P 5064611 Date: 1/28/26 Signature: *Austin Hampton*

Ronald Adams A&P/IA 4213961 Date: 1/28/26

01/28/2026 Austro E4P S/N E4P-C-06063 Air Time 538.60 TTIS 538.60 TSOH 538.60

Performed 100 Hr inspection of LH engine IAW Diamond DA62 AMM, Austro MM E4 Series E4.08.04, Austro OM E4 E4.01.01, and FAR 43.13 appendix D. Drained engine oil and reserviced engine oil with 7L of Aeroshell Oil Diesel Ultra 5W-30. Removed engine oil filter, inspected, and replaced with new oil filter (P/N: HU 615/3X). Drained gear box oil and reserviced gearbox with 2.3L of Shell Spirax S6 GXME 75W-80. Removed gearbox oil filter, inspected, and replaced with new gearbox oil filter (P/N: E4A-70-000-806). Removed fuel filter body and replaced with new fuel filter body (P/N: WK724/3). Serviced coolant reservoir with Valvoline Zerex G48. Complied with MSB 62-045 Rev. 2 inspection of starter wiring, no defects noted. Complied with MSB 62-002. Verified Engine software version is VC33_2P_07_26 for hardware version AE on LH engine FADEC. Performed engine ground test run, no defects found, engine operating with parameters, with no leaks detected on work performed. **Performed AD records review, C/W AD 2025-02-12 collection of engine oil sample IAW MSB-E4-039/3. No other AD's due at this time.**

I certify that this engine has been inspected in accordance with Diamond and Austro inspection and is determined to be returned to service.

Austin Hampton A&P 5064611 Date: 1/28/26 Signature: 

Ronald Adams A&P/IA 4213961 Date: 1/28/26



N684AB Engine 1 Log

05/23/2026 | S/N E4P-C-06063 | Air Time 538.60 | TTIS 538.60
WO1771

The following maintenance was performed in accordance with current manufacturer's maintenance manual and applicable service information:

- **Engine**
 - Removed and replaced waste gate controller (P/N: E4A-41-120-000)
 - Removed and replaced BPA (P/N: E4A-41-300-801)
- **Airworthiness Directives**
 - Complied with **AD 2020-22-14**, Removed and installed waste gate control rod fail safe bridge on to new waste gate controller.
 - Reviewed all applicable Airworthiness Directives and updated compliance status in the current Veryon tracking system maintained in accordance with 14 CFR § 91.417

Aircraft returned to service IAW FAR 43.9 with respect to the work performed

Austin Hampton A&P 5064611 Date: 5/23/26

Dylan Schleuter A&P 5045903 Date: 5/23/26 Signature: 