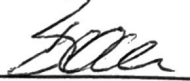



AIRCRAFT TECHNICAL RECORD

Section 3.

ENGINE LOG

L.H.

1. Approving Competent Authority / Country Austro Control GmbH Austria		2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1			3. Form Tracking Number AE037410	
4. Organisation Name and Address		Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wr. Neustadt, AUSTRIA			5. Work Order / Contract / Invoice ES211456	
6. Item	7. Description	8. Part No.	9. Quantity	10. Serial No.	11. Status / Work	
1	E4PC Engine	E4PC-00-000-BHY Iss. 004	1	E4P-C-06046	New	
12. Remarks						
General The engine conforms to the type design approved by Canadian Department of Transport Type Certificate IE-68 General The engine complies with the applicable airworthiness directives. Item 1 The engine conforms to EASA TCDS E.200 Issue 12; Damper assy P/N: D44-7306-30-00_1 (EASA Form1: AJ64027) Item 1 Fuel hose assy P/N: A24119-01 (EASA Form1: 232207). Cleaned and installed acc. AE APA_Pulsationsdämpfer-Aufbau_190618.						
13a. Certifies that the items identified above were manufactured in conformity to:			14a. <input type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation specified in block 12			
<input checked="" type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data 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		14b. Authorised Signature		14c. Certificate / Approval Reference Number
		AT.21G.0010				
13d. Name		13e. Date (dd mmm yyyy)		14d. Name		14e. Date (dd mmm yyyy)
		12 MAY 2021				
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-06046 |
| 5. Date of Manufacture: | MAY 12 2021 |
| 6. Aircraft Inspection Cycle: | |



Section 3A: Engine Service and Maintenance Log



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

Registration: N71BG
AC Serial Number: 62.C038
LH Engine Serial Number: E4P-C-06046
RH Engine Serial Number: E4P-C-06045
LH Prop Serial Number: 201376
RH Prop Serial Number: 201377
Airframe Total Time: 3.9 HRS

- LH Engine Total Time brought forward from Production Test Flight Journey Log (DAI - Form Q-224): 3.9 HRS
- LH Engine installed new on Aircraft DA 62, S/N: 62.C038
- Bi-weekly AWD check carried out to current revision 2021-25 all applicable AD's complied with, see attached.
- The work described above was carried out IAW the applicable Standard of Airworthiness.

DA
Q 8

Inspector

DEC 22 2021

date

(Intentionally left blank below this point)

2823 East Empire Street
Bloomington, Illinois 61704
United States
Telephone: (309)828-4448
Fax: (309)828-4458
info@synergyfbo.com

SYNERGY
FLIGHT CENTER

Log Book Entry

June 07, 2022
FAACRS 8SGR199C
www.synergyfbo.com

Manufacturer: AUSTRO ENGINE
Part/Model number: E4P-C
Work Order No: R1846

TSN/TSO: 82.70 / N/A
Serial Number: Unknown
Date: 06/07/2022

CSN/CSO: N/A / N/A

Squawk
2.2

REMOVED AND REPLACED THE OIL SEPERATOR RETURN LINE BANJO BOLT GASKETS IAW THE AUSTRO E4P-C EMM CHAPTER 79-20-00. PERFORMED POST-MAINTENANCE ENGINE GROUND RUN, NO DEFECTS NOTED. I CERTIFY THAT THE WORK DESCRIBED ABOVE HAS BEEN INSPECTED AND IS DETERMINED TO BE IN AN AIRWORTHY CONDITION WITH RESPECT TO THE WORK PERFORMED.

These items identified above were repaired and/or inspected in accordance with current Federal Aviation Regulations and the repairs are approved for return to service. Pertinent details of these repairs are on file at the repair station under Work Order Number R1846.

Signature :

John A. Bunn

Date :

6/07/2022

*** End of Document ***

wo: WO_61

Engine L - page 1 of 1



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

N71BG

TACH: 99.8

Austro, E4P, S/N: E4P-C-06046

July 13, 2022

- Drained oil, removed filter, cut open and inspected, no defects noted at this time.
- Serviced with 6 1/2 quarts Aeroshell Diesel Ultra.
- Drained gearbox system through filter, inspected and no defects noted at this time, serviced with same fluid to sight gauge.

With respect to the work performed, this engine L is approved for return to service. Details of work performed are on file with Steel Aviation, Inc. under work order: WO_61 .

Jeff Pleiman A/P I/A 3304319

Jeff S. Pleiman

TOTALS

PREVIOUS
TOTALS

TOTALS
SINCE NEW

CARRY FORWARD to Top of Next Page

ENGINE LOG

8/16/2022

**STEEL
AVIATION**Reg: **N71BG**

Eng. S/N: 689928

Make: Diamond

Model: SR22

Hobbs:

Tach: 135.7

TTSMOH: 135.7

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

1.R&R PROP gov P/N P-877-16 S/N
#2TC5/3-K-G with NEW replacement unit
S/N P/N P-877-16 S/N 22G723-K/G on
LH engine, I/A/W DA62 AMM 61-20-00.

A/P3939968 Brad Helman

Signed



WWW.STEELAVIATION.COM

wo: WO_114

Engine - page 1 of 1



Steel Aviation, Inc. · 53 North Street Ext · Phillipsburg, Ohio 45354 · 937 332 7587

N71BG

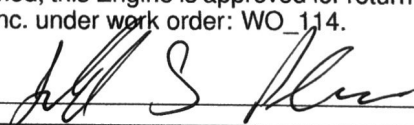
TACH: 190.3

November 08, 2022

1. C/W MSB-E4-039/0, Took oil samples and sent to Jet Care and Black Stone. Installed (2) P/N BLACK STONE - Black Stone oil sample kit.
2. C/W 100 engine service. Installed (2) P/N WK724-3 - DIAMOND FUEL FILTER, Installed (2) P/N E4A-52-000-KIT - DIAMOND 100HR MAIN. KIT, Installed (13) P/N AEROSHELL DIESEL ULTRA - DIESEL PISTON OIL, 1L.
3. Secured loos oil cooler foam seal.
4. cleaned and performed run-up NDN.

With respect to the work performed, this Engine is approved for return to service. Details of work performed are on file with Steel Aviation, Inc. under work order: WO_114.

Jeff Pleiman A/P I/A 3304319



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							

wo: WO_160



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

Engine L · page 1 of 1

N71BG
TACH: 215.8

Austro, E4P, S/N: E4P-C-06046

January 13, 2023

- 1. C/W Annual Inspection in accordance with FAR 43 Appendix D - using Diamond DA62 AMM AND Austro Engine manual as a guide.
- 2. 100 hour services due in 74.5 hours at 290.3 tach. See engine log dated 11/8/2022 for last 100 hour service compliance.
- 3. C/W 200 hour check IAW Diamond DA62 AMM.
- 4. AD 22-03-03 P/C/W at factory see original Austro engine logbook entry dated 12/16/2021. P/C/W per MSB-E4-036/1 on both engines, drive gear s/n's installed 4747 and 4463.
- 5. R&R Air filter with new. Installed P/N RU-1620 - AIR FILTER.

I certify that this ENGINE (L/H) has been inspected in accordance with an (annual) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO_160.

Jeff Pleiman A/P I/A 3304319

[Signature]

wo: WO_236



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

Engine L · page 1 of 1

N71BG
TACH: 301.2

Austro, E4P, S/N: E4P-C-06046

May 04, 2023

- 1. C/W 300 hour engine service on L/H engine using Austro Engine E4 series maintenance manual CH. 5-20-00. Installed P/N E4A-00-301-KIT - DIAMOND 300HR PHASE II.
- 2. Drained gearbox oil and removed gearbox oil filter. Serviced gearbox oil with new IAW Austro engine E4 manual section 85-10-00 para 4.K(b). Replaced gearbox oil filter IAW Austro engine E4 manual section 85-10-00 para 4.G,H. Installed P/N E4A-70-000-806 - FILTER, GEARBOX, Installed (2) P/N DIN-3771-26X2-FPM75 - O RING, GEARBOX FILTER CAP, Installed (3) P/N SPIRAX GXME 75W-80 1L - GEARBOX OIL, DIAMOND, 1L BOTTLE.
- 3. Took sample of gearbox oil and sent out.
- 4. Removed and replaced L/H fuel filter with new IAW Diamond DA62 MM section 28-20-00 para. 4.A,B. Installed P/N WK724-3 - DIAMOND FUEL FILTER.
- 5. Drained engine oil and took sample. Sent sample to Spectro Jet Care. Serviced engine IAW 79-20-00 para. 5.A,B.
- 6. Removed and replaced oil filter IAW Austro engine section 79-20-00 para. 3. No defects noted at this time. Installed (6 L) P/N AEROSHELL DIESEL ULTRA - DIESEL PISTON OIL, 1L.
- 7. Removed injector cover for inspection no defects noted at this time and reinstalled IAW Austro Engine MM section 85-10-00 PARA. 3.A,B.

With respect to the work performed, this engine L/H is approved for return to service. Details of work performed are on file with Steel Aviation under work order: WO_236.

Jeff Pleiman A/P I/A 3304319

[Signature]

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

wo: WO_376

Engine L - page 1 of 1



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

N71BG
TACH: 368.2

Austro, E4P, S/N: E4P-C-06046

December 01, 2023

1. C/W Annual / 100 hour Scheduled Maintenance Checks I/A/W Austro AMM 50-20-00. Installed P/N E4A-41-120-816 - CLAMP, WASTEGATE HOSE, DIAMOND DAXX.
2. C/W engine oil service I/A/W Austro MM 12-10-00,a , cut open oil filter, NDN Installed (7 L) P/N AEROSHELL DIESEL ULTRA - DIESEL PISTON OIL, 1L, Installed P/N E4A-52-000-KIT - DIAMOND 100HR MAINT. KIT.
3. C/W engine gearbox service I/A/W Austro MM 12-10-00,b. NDN.
4. C/W Fuel system service I/A/W Diamond MM CH. 28-20-00 Part 4 A&B. Installed P/N WK724-3 - DIAMOND FUEL FILTER.
5. C/W engine ground run according to section 71-00-01. NDN.
6. R&R : Installed P/N RU-1620 - AIR FILTER.
7. C/W AUSTRO MSB E4-003/30 ECU Software VC33_2P_07_26.

I certify that this L/H Engine has been inspected in accordance with an (annual) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO_376.

Jeff Pleiman A/P I/A 3304319

wo: WO_524

Engine L - page 1 of 1



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

N71BG
TACH: 495.4

Austro, E4P, S/N: E4P-C-06046


July 10, 2024

1. C/W 100 hour Scheduled Maintenance Checks I/A/W Austro AMM 50-20-00. Installed P/N E4A-41-120-816 - CLAMP, WASTEGATE HOSE, DIAMOND DAXX.
2. C/W engine oil service I/A/W Austro MM 12-10-00,a , cut open oil filter, NDN Installed P/N E4A-52-000-KIT - DIAMOND 100HR MAINT. KIT, Installed (7 L) P/N AEROSHELL DIESEL ULTRA - DIESEL PISTON OIL, 1L.
3. C/W engine gearbox service I/A/W Austro MM 12-10-00,b. NDN.
4. C/W engine ground run according to section 71-00-01. NDN.
5. C/W MSB-E4-039 By collecting oil sample and sending out.

With respect to the work performed, this engine L/H is approved for return to service. Details of work performed are on file with Steel Aviation under work order: WO_524.

Jeff Pleiman A/P I/A 3304319

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							

wo: WO_649

Engine L · page 1 of 1



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

N71BG

Austro, E4P, S/N: E4P-C-06046

January 21, 2025

TACH: 513.7

1. C/W Pre maintenance Engine ground run I/A/W Austro MM71-00-01.
2. C/W AUSTRO INSPECTION 100 hour CHECK LIST I/A/W AUSTRO MM 5-00-00.
3. C/W ECU download I/A/W Austro MM 76-10-00.
4. C/W gearbox service I/A/W Austro MM 85-10-00 para 4.K(a), para 4.E. para 4.G, para 4.K(b). Installed P/N DIN-3771-26X2-FPM75 - O RING, GEARBOX FILTER CAP.
5. C/W engine oil service I/A/W Austro MM 79-20-00 Paragraph 5.A, 79-20-00 Paragraph 3, 79-20-00 para 5.B. 7 INSPECTED OIL FILTER NDN. Installed P/N E4A-52-000-KIT - DIAMOND 100HR MAINT. KIT, Installed (6) P/N AEROSHELL DIESEL ULTRA - DIESEL PISTON OIL, 1L.
6. C/W AD 23-20-03 I/A/W MSB-E4-039/R3.
7. C/W wastegate controller inspection / check I/A/W AUSTRO AMM SECTION 81-20-00 para 5.C. Installed P/N E4A-41-120-816 - CLAMP, WASTEGATE HOSE, DIAMOND DAXX, Installed P/N E4A-41-300-803 - Clamp.
8. C/W FUEL SYSTEM SERVICE I/A/W Diamond MM CH. 28-20-00 Part 4 A&B. Installed P/N WK724-3 - DIAMOND FUEL FILTER, Installed P/N DIN7603A-8X11.5AL - Sealing washer, Alum, 8x11.5.
9. C/W Post maintenance Engine ground run I/A/W Austro MM71-00-01.

I certify that this ENGINE L/H has been inspected in accordance with an (annual) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO_649.

Jeff Pleiman A/P I/A 3304319

Feb 8 1968

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