

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 AE021674
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4. Organisation Name and Address: Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wiener Neustadt, AUSTRIA	5. Work Order / Contract / Invoice ES180609
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6. Item	7. Description	8. Part No.	9. Qty.	10. Serial No.	11. Status/Work
1	E4PC Engine	E4PC-00-000-000 Iss.: 004	1	E4P-C-00202	New

12. Remarks

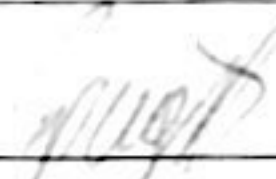

Item 1: The Engine conforms to EASA TCDS E.200 Issue 10; Damper assy P/N: D44-7306-30-00_1 (EASA Form1: AJ40191) and
 Item 1: Fuel hose assy P/N: A24119-01 (EASA Form1: 217386) acc. DAI-Drawing D44-7306-00-00 Item #16 & #17 cleaned and installed acc AE APA 26.02.2014

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 Ref. Number
13d. Name 	13e. Date (dd mmm yyyy) 04 SEP 2018	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 DATA

- 1. Make Austro Engine GmbH
- 2. Model E4P-C
- 3. Specification E00081EN
- 4. Manufacturer's Serial Number E4P-C-00202
- 5. Date of Manufacture September 2018
L/H



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 INC.
D.O.T. APPROVED MAINTENANCE ORGANIZATION 161-93

Registration:	N1615W	AC Serial Number:	62.083
Airframe Total Time:	30.6	Work Order:	SO 072053
Engine LH SN:	E4P-C-00202	Engine LH TT:	30.6

- Engine E4P, S/N: E4P-C-00202, installed on Aircraft DA 62 S/N: 62.083, LEFT
- Total Time Engine brought forward: 30.6 hrs
- EECU software installed: VC33_2P_06_21
- 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 2018-24
- 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: **DEC 10 2018**

N1615W (LH Engine)

Diamond DA-62 S/N: 62.083

LH Engine M/N: E4P-C



S/N: E4P-C-00202

7/09/2019
Tach: 109.0
Eng TT: 109.0

Performed the following maintenance:

1. Performed a 100 Hour inspection referencing the Diamond DA-62 Maintenance Manual.
2. *This was the Engine's 1st 100 Hour Inspection, complied with all manufacturer required items.*
3. Drained the engine oil. Removed, cut open, and inspected the oil filter, no defects noted. Installed a new oil filter and serviced the engine with 6.5 quarts of Aeroshell Ultra Diesel 5W30 oil.
4. Removed, cleaned, serviced, and reinstalled the Gearbox Screen, serviced the gearbox as required.

I certify that this **Engine** has been inspected in accordance with a 100 Hour inspection and was determined to be in airworthy condition. Work performed in accordance with the current regulations of the FAA and is approved for return to service. Details are on file at this Repair Station under WO #14861

Daytona Aircraft Services, Inc.
561 Pearl Harbor Drive
Daytona Beach, Florida 32114

Authorized Signature:

FAA CRS DYTR262K

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THIS PAGE TOTALS						
PREVIOUS TOTALS						
TOTALS SINCE NEW						

CARRY FORWARD to Top of Next Page

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

N1615W (LH Engine)
Diamond DA-62 S/N: 62 083
LH Engine M/N: E4P-C

DAYTONA
AIRCRAFT SERVICES 
S/N: E4P-C-00202

11/13/2019
Tach: 137.7
Eng TT: 137.7

Performed the following maintenance:

- 1 Performed an Annual inspection referencing the Diamond DA-62 Maintenance Manual.
- 2 Drained the engine oil. Removed, cut open, and inspected the oil filter, no defects noted. Installed a new oil filter and serviced the engine with 6.5 quarts of Aeroshell Ultra Diesel 5W30 oil.
- 3 Removed, cleaned, serviced, and reinstalled the Gearbox Screen, serviced the gearbox as required.
- 4 Removed, cleaned, serviced, and reinstalled the Induction Air Filter. Next due at **337.7 Tach**.

I certify that this **Engine** has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition. Work performed in accordance with the current regulations of the FAA and is approved for return to service. Details are on file at this Repair Station under WO # 15067.

Daytona Aircraft Services, Inc.
561 Pearl Harbor Drive
Daytona Beach, Florida 32114

Authorized Signature: 

FAA CRS DYTR262K

-----END-----

ENGINE MODEL: E4P-C
ENGINE S/N (L):
E4P-C-00202
REG. NO: 1615W
WORK ORDER:
9150-11-2020



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 12/7/2020
AC TSN: 212.8
ENG TT (L): 212.8
TACH: 212.8

Left Engine Entries

- (3) C/W ANNUAL INSPECTION ON LH ENGINE IAW 14 CFR PART 43 APPENDIX D, USING DA62 CH 5 AND AUSTRO DOC E4.08.04 AS A GUIDE. SERVICED ENGINE WITH 7 LITERS OF AEROSHELL DIESEL ULTRA 5W30 AND NEW ENGINE OIL FILTER P/N E4A-S2-100-802. REPLACED FUEL FILTER WITH NEW P/N WK724_3 ENGINE WAS GROUND RUN AND LEAK CHECKED OK. ADS CHECKED THROUGH CURRENT ON ATP NAVIGATOR.
- (11) C/W AD 2020-22-14 PREVENT FAILURE OF TURBO WASTE GATE CONTROL ROD —PCW BRIDGE AND CIRCLIP INSTALLED IAW PAR(H) DURING MFG. TERMINATING ACTION.
- (24) UPDATED LH ENGINE ECU S/W WITH VERSION VC33-2P-06-24 (20-02-2020) IAW AE300 WIZARD.
- (35) REMOVED, CLEANED AND REINSTALLED OIL BREATHER VALVE ON LEFT ENG I.A.W. AUSTRO E4.08.04 MM CH 79-00-00.

I CERTIFY THIS AIRFRAME, ENGINE, OR PROPELLER HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

DATE: 12/7/2020

SIGNED: 
EMMANUEL VICIOSO
CRS 9PAR402B

Work Order: 9150-11-2020

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ENGINE MODEL: E4P-C
ENGINE S/N (L):
E4P-C-00202
REG. NO: 1615W
WORK ORDER:
9253-02-2021



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 2/25/2021
AC TSN: 249.2
ENG TT (L): 249.2
TACH: 249.2

Left Engine Entries

- (7) INSTALLED NEW OIL SEPARATOR ON LH ENGINE IAW AUSTRO E4.08.04 MM CH 79-20. PERFORMED ENGINE RUN OPS CHECK GOOD. NO LEAKS DETECTED AT THIS TIME.

DATE: 2/25/2021

SIGNED: 
Francisco Barrera, A&P: 3726219

Work Order: 9253-02-2021

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: E4P-C
ENGINE S/N (L):
E4P-C-00202
REG. NO: 1815W
WORK ORDER:
9449-07-2021



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2383

DATE: 8/4/2021
A/C TSN: 312.3
ENG TT (L): 312.3
TACH: 312.3

OF WORK PERFORMED:
(PAIRS, REPLACEMENT)

Left Engine Entries

- (2) C/W 300 HR INSPECTION ON LH ENGINE IAW AUSTRO E4.08.04 MM CH 5-10. CHANGED ENG OIL AND OIL FILTER KIT PN: E4A-00-301-KIT. SERVICED WITH 7 LITERS OF AEROSHELL DIESEL 5W30. REPLACED FUEL FILTER WITH NEW PN: WK724_3. REPLACED GEARBOX FILTER WITH PN: E4A-70-000-806. REPLACED GEARBOX OIL WITH NEW 75W-80. ENGINE RUN UP CHECKED GOOD.
- (8) C/W 300 HR TWO- MASS FLYWHEEL INSPECTION ON LH ENGINE IAW: AUSTRO MM E4.08.04 CH 85-10-00. NO DEFECTS NOTED AT THIS TIME.
- (10) C/W 300 HR LH ALTERNATOR BRUSH INSPECTION IAW: AUSTRO E4.08.04 MM CH 24-30-00. NO DEFECTS NOTED AT THIS TIME.
- (12) C/W 5 YR LH ENGINE V-RIBBED BELT REPLACEMENT IAW: AUSTRO E4.08.04 MM CH 85-40-00. INSTALLED NEW BELT PN E4A-74-000-801.
- (14) C/W AUSTRO ~~MSB-E4-0287~~ LH ENG MODIFICATION OF PRESSURE VALVE HOSE.

I CERTIFY THIS AIRFRAME, ENGINE, OR PROPELLER HAS BEEN INSPECTED IAW 14 CFR PART 43 APPENDIX-D 100 HR INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

DATE: 8/4/2021

SIGNED:

EMMANUEL VICIOSO
CRS 9PRR402B

Work Order: 9449-07-2021

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ENGINE MODEL: E4P-C
ENGINE S/N (L):
E4P-C-00202
REG. NO: 1815W
WORK ORDER:
9500-09-2021



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2383

DATE: 9/17/2021
A/C TSN: 328.1
ENG TT (L): 328.1
TACH: 328.1

Left Engine Entries

- (6) REPLACED LH ENGINE SHOCK MOUNTS WITH NEW PN D44-7106-00-55 (2 EA), PN D64-9071-26-01_01 AND D64-9071-26-02_01 TO ELIMINATE CHAFFING AGAINST FWD COWLING IAW DA62 MM CH 71-00.
- (12) REPLACED LH COOLANT RESERVOIR LEVEL SENSOR WITH NEW PN D4D-9075-26-26 IAW DA62 MM CH 75-00. OPS CHECKED GOOD.
- (14) REPLACED LH ENGINE TURBO WITH NEW PN E4C-00-410-000-BHY SN XA-50045953-0022 IAW AUSTRO E4.08.04 MM CH 81-00. ENG RUN UP CHECKED GOOD.
- (16) C/W ~~MSB-E4-034~~ HP FUEL PUMP DRIVE GEAR-- LH ENG. N/A BY S/N.
- (17) C/W ~~MSB-E4-036~~ CYLINDER HEAD ASSY AND HP FUEL PUMP GEAR-- LH ENG. N/A BY CYLINDER HEAD ASSY P/N.

DATE: 9/17/2021

SIGNED:

EMMANUEL VICIOSO
CRS 9PRR402B

Work Order: 9500-09-2021

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ENGINE MODEL: E4P-C
ENGINE S/N (L):
E4P-C-00202
REG. NO: 1815W
WORK ORDER:
9594-11-2021



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2383

DATE: 11/24/2021
A/C TSN: 343.1
ENG TT (L): 343.1
TACH: 343.1

Left Engine Entries

- (2) REPLACED LH ENGINE FUEL FILTER PN WK723-4 AND SWAPPED PRESSURE SENSOR FROM RH TO LH HHP PUMP. ALL WORK PERFORMED IAW DA62 MM CH 28 AND E4-08-04 MM CH 73-00. PERFORMED ENGINE RUN. OPS CHECKED GOOD.
- (3) REPLACED LH ENGINE TURBO BANJO SEALS WITH NEW IAW E4-08-04 MM CH 79-20. PERFORMED ENGINE RUN. NO LEAKS DETECTED AT THIS TIME.

DATE: 11/24/2021

SIGNED:

SAMUEL TAVAREZ JR.
CRS# 9PRR402B

Work Order: 9594-11-2021

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THI
TC
PRE
TC
TO
SINCE

LICENCE:
AME or
AMO/ACA

ENGINE MODEL: E4P-C
ENGINE S/N (L):
E4P-C-00202
REG. NO: 1815W
WORK ORDER:
9800-11-2021



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 12/10/2021
AC TSN: 355.2
ENG TT (L): 355.2
TACH: 355.2

Left Engine Entries

(2) REMOVED LH ENGINE TURBO WASTE GATE RESTRICTOR, INSTALLED NEW HOSE WITHOUT RESTRICTOR. HOSE IS NO LONGER KINKED. MADE GOOD NUMBERS, FLEW BACK TO FXE
(4) REMOVED AND REPLACED LH ENGINE WASTEGATE RESTRICTOR WITH NEW PN: AEP-00361 ALL WORK PERFORMED IAW: E4.08.04 MM 81-20-05

DATE: 12/10/2021

SIGNED:

Work Order: 9800-11-2021

Nathan Heller, A&P 3613450

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ENGINE MODEL: E4P-C
ENGINE S/N (L):
E4P-C-00202
REG. NO: 1815W
WORK ORDER:
9635-12-2021



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 1/17/2022
AC TSN: 362.7
ENG TT (L): 362.7
TACH: 362.7

Left Engine Entries

(3) C/W ANNUAL INSPECTION ON LH ENGINE IAW 14 CFR PART 43 APPENDIX D, USING DA62 MM CH 5 AND AUSTRO E4.08.04 MM INSPECTION CHECKLIST AS A GUIDE. SERVICED ENGINE WITH 7 LITERS OF AEROSHELL DIESEL ULTRA 5W30 AND NEW ENGINE OIL FILTER P/N E4A-52-100-802. REPLACED FUEL FILTER WITH NEW P/N WK724_3 ENGINE WAS GROUND RUN AND LEAK CHECKED OK. ADS CHECKED THROUGH CURRENT ON ATP NAVIGATOR.
(17) C/W MSB-E4-036 HPP INSPECTION AND REPLACEMENT. N/A BY HPP S/N.
(32) REPLACED LH ENGINE TURBO OIL RETURN LINE SEALS WITH NEW IAW AUSTRO E4-08-04 MM CH 79-00.
(33) REPLACED LH ENGINE OIL SERVICE CAP WITH NEW PN DIN3771-37.77X2.62 AS REQUIRED.
(35) REPAINTED LH ENGINE VALVE COVER WITH FIRE RETARDANT IAW DA62 CH 51.

I CERTIFY THIS AIRFRAME, ENGINE, OR PROPELLER HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

DATE: 1/17/2022

SIGNED:

Work Order: 9635-12-2021

EMMANUEL VICIOSO
CRS 9PRR402B

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ENGINE MODEL: E4P-C
ENGINE S/N (L):
E4P-C-00202
REG. NO: 1815W
WORK ORDER:
9977-09-2022



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 9/9/2022
AC TSN: 455.2
ENG TT (L): 455.2
TACH: 455.2

Left Engine Entries

(3) C/W (DA62) 100 HR INSPECTION ON LH ENGINE IAW DA62 CH 5 AND AUSTRO E4.08.04 MM INSPECTION CHECKLIST. SERVICED ENGINE WITH 7 LITERS OF AEROSHELL DIESEL ULTRA 5W30 AND NEW ENGINE OIL FILTER P/N E4A-52-100-802. REPLACED FUEL FILTER WITH NEW P/N WK724_3 ENGINE WAS GROUND RUN AND LEAK CHECKED OK. ADS CHECKED THROUGH CURRENT ON ATP NAVIGATOR.
(9) REMOVED AND REPLACED SEALS ON OIL RETURN LINE BANJO FITTING IAW AUSTRO MM CHAPTER 79

DATE: 9/9/2022

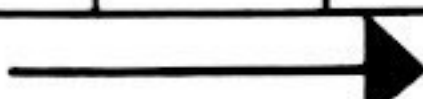
SIGNED:

Work Order: 9977-09-2022

SAMUEL TAVAREZ JR.
CRS 9PRR402B

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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)

ENGINE MODEL: E4P-C
ENGINE S/N (L):
E4P-C-00202
REG. NO: 1615W
WORK ORDER:
10019-10-2022



Premier Aircraft Service, Inc.
5540 NW 23rd Avenue Hanger 14
Fort Lauderdale, FL 33309
Phone: (954) 334-2393

DATE: 11/4/2022
A/C TSN: 464
ENG TT (L): 464
TACH: 464

Left Engine Entries

(3) C/W ANNUAL INSPECTION ON LEFT ENGINE IAW 14 CFR PART 43 APPENDIX D, USING DA62 CH 5 AND AUSTRO E4.08.04 MM INSPECTION CHECKLIST AS A GUIDE. SERVICED ENGINE WITH 7 LITERS OF AEROSHELL DIESEL ULTRA 5W30 AND NEW ENGINE OIL FILTER P/N E4A-52-100-802. REPLACED FUEL FILTER WITH NEW P/N WK724_3 ENGINE WAS GROUND RUN AND LEAK CHECKED OK. ADs CHECKED THROUGH CURRENT ON ATP NAVIGATOR.
(26) MSB-E4-039 OIL ANALYSIS AND PISTON REPLACEMENT-- N/A BY S/N

I CERTIFY THIS AIRFRAME, ENGINE, OR PROPELLER HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION.

DATE: 11/4/2022

SIGNED:

EMMANUEL VICIOSO
CRS 9PKR402B

Work Order: 10019-10-2022

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N1615W

Engine Log BK

MAY 12, 2023

TTIS: 573.2

Model -E4P-C

SN# L/H E4P-C-00202

TTSO: 573.2

Performed 100 Hr. inspection on L/engine I.A.W. DA 62 Diamond A/C M/M & Austro Engine M/M. Removed and replaced Oil Filter & Oil, OIL Filter PN# E4A-52-100-802 Aeroshell Diesel Ultra 7QTS. Removed & replaced fuel filter, PN# WK724_3. Removed & inspected Gearbox element and serviced gearbox oil N1. Serviced Left engine Coolant with G48 coolant. All ADs are up to date & in compliance. Ran Engine, leaked check engine, no leaks noted. Rechecked oil quantity, full.

I certified that this engine inspection is compliance with 100HR inspection and has been determined Airworthy and returned to service.

James Catchings I/A & A/P 2769658, Wesley A/P # 3793183




N1615W

Left Engine Log BK

DATE: July 12, 2023

AFTTIS: 614.1

Model-E4PC

SN: E4P-C-00202

ETTIS: 614.1

ETSN: 614.1

Complied with 600-hour replacement of Two-Mass Flywheel and Hub Assembly. Removed Two-Mass Flywheel and Hub Assembly, PN: E4PB-73-000-000, SN: 02672; Installed NEW Two-Mass Flywheel and Hub Assembly, PN: E4PB-73-000-000, SN: 07280. Complied with 600-hour replacement of High Pressure Fuel Pump. Removed High Pressure Fuel Pump, PN: E4A-30-000-000, SN: 18-02-02-02034; Installed NEW High Pressure Fuel Pump, PN: E4A-30-000-BHY, SN: 22-09-05-02-01368. Complied with 600-hour replacement of Wastegate Controller Circlip and 600-hour flush and replenishment of G48 Coolant. Performed 100-hour inspection on L. Engine. Replaced gearbox filter and replenished gearbox oil with Shell Spirax 75W-80. Installed new fuel filter and bled fuel system. Changed engine oil and filter and replenished with 7 quarts Aeroshell Diesel Ultra. Removed Safety Valve for Coolant Tank, PN: X11-0014-00-00.00, SN: 2074, and installed NEW Safety Valve, PN: X11-0014-00-00.00, SN: 5136. Work performed IAW DA 62 MM and Astro Engine MM. Operational and leak-checked engine. No defects or leaks noted. Rechecked all fluid quantities, full.

Joseph Amirault A/P # 3958252

TOTALS
SINCE NEW

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