

# AIRCRAFT TECHNICAL RECORD

## Section 3. ENGINE LOG

1. Approving Competent Authority /Country <b>Austro Control GmbH Austria</b>	2. <b>AUTHORISED RELEASE CERTIFICATE EASA FORM 1</b>	3. Form Tracking Number <b>AE021616</b>
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4. Organisation Name and Address: <b>Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wiener Neustadt, AUSTRIA</b>	5. Work Order / Contract / Invoice <b>ES180589</b>
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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-00203	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:  <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	14a. <input type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> 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.
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13b. Authorised Signature	13c. Approval / Autorisation Number <b>AT.21G.0010</b>	14b. Authorised Signature	14c. Certificate/ Approval Ref. Number
13d. Name	13e. Date (dd mmm yyyy) <b>05 SEP 2018</b>	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-00203
  5. Date of Manufacture September 2018
- R/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 IND.  
D.O.T. APPROVED MAINTENANCE  
ORGANIZATION 161-93

Registration:	N1615W	AC Serial Number:	62 083
Aircraft Total Time:	30.6	Work Order:	SO 072053
Engine RH SN:	E4P-C-00203	Engine RH TT:	30.6

- Engine E4P, S/N: E4P-C-00203, installed on Aircraft DA 62 S/N: 62.083, RIGHT
- 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 Standards of Airworthiness



DEC 10 2018

Date: \_\_\_\_\_

**N1615W (RH Engine)**

Diamond DA-62 S/N: 62.083

RH Engine M/N: E4P-C



S/N: E4P-C-00203

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 1<sup>st</sup> 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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NAME/  
SIGNATURE

LICENCE:  
AME or  
AMO/ACA

**N1615W (RH Engine)**

Diamond DA-62 S/N: 62 083

RH Engine M/N: E4P-C



S/N: E4P-C-00203

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: *[Signature]*

FAA CRS DYTR262K

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ENGINE MODEL: E4P-C  
ENGINE S/N (R):  
E4P-C-00203  
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  
A/C TSN: 212.8  
ENG TT (R): 212.8  
TACH: 212.8

**Right Engine Entries**

- (4) C/W ANNUAL INSPECTION ON RH 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-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.
- (12) 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.
- (25) UPDATED RH ENGINE ECU S/W WITH VERSION VC33-2P-06-24 (20-02-2020) IAW AE300 WIZARD.
- (27) REPLACED RH ENG OIL DRAIN VALVE WITH NEW P/N D44-9071-06-01 I.A.W. AUSTRO E4.08.04 M.M. CH 79-00-20.
- (36) REMOVED, CLEANED AND REINSTALLED OIL BREATHER VALVE ON RIGHT ENGINE I.A.W. AUSTRO E4.08.04 M.M. 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: *[Signature]*

Work Order: 9150-11-2020

EMMANUEL VICIOSO  
CRS 9PRR402B

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ENGINE MODEL: E4P-C  
ENGINE S/N (R):  
E4P-C-00203  
REG. NO: 1615W  
WORK ORDER:  
9449-07-2021



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

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

**Right Engine Entries**

- (3) C/W 300 HR INSPECTION ON RH ENGINE IAW AUSTRO E4.08.04 MM CH 5-10. CHANGED ENG OIL AND OIL FILTER KIT P/N E4A-00-301-KIT. SERVICED WITH 7 LITERS OF AEROSHELL DIESEL 5W30. REPLACED FUEL FILTER WITH NEW P/N WK724\_3. REPLACED GEARBOX FILTER WITH P/N E4A-70-000-806. REPLACED GEARBOX OIL WITH NEW 75W-80. ENGINE RUN UP CHECKED GOOD.
- (9) C/W 300 HR TWO- MASS FLYWHEEL INSPECTION ON RH ENGINE IAW: AUSTRO MM E4.08.04 CH 85-10-00. NO DEFECTS NOTED AT THIS TIME.
- (11) C/W 300 HR RH ALTERNATOR BRUSH INSPECTION IAW: AUSTRO E4.08.04 MM CH 24-30-00. NO DEFECTS NOTED AT THIS TIME.
- (13) C/W 5 YR RH ENGINE V-RIBBED BELT REPLACEMENT IAW: AUSTRO E4.08.04 MM CH 85-40-00. INSTALLED NEW BELT P/N E4A-74-000-801.
- (15) C/W AUSTRO MSB-E4-029/1 RH ENG MODIFICATION OF PRESSURE VALVE HOSE.
- (16) REPLACED RH ENGINE OIL DIPSTICK O-RING AS REQUIRED.

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: *[Signature]*

Work Order: 9449-07-2021

EMMANUEL VICIOSO  
CRS 9PRR402B

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# Section 3A: Engine Service and Maintenance Log

WORK PERFORMED:  
RS, REPLACEMENT)

ENGINE MODEL E4P-C  
ENGINE S/N (R)  
E4P-C-00203  
REG. NO. 1815W  
WORK ORDER:  
9500-09-2021



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

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

**Right Engine Entries**

- (10) REPLACED RH ENG UPPER COOLANT LINE WITH NEW P/N E4A-06-000-801 IAW DA62 MM CH 75-00
- (15) C/W MSB E4-034 HP FUEL PUMP DRIVE GEAR- RH ENG. N/A BY S/N
- (18) C/W MSB-E4-035 CYLINDER HEAD ASSY AND HP FUEL PUMP GEAR- RH ENG. N/A BY CYLINDER HEAD ASSY P/N

DATE: 9/17/2021

SIGNED:

Work Order: 9500-09-2021

EMMANUEL VICIOSO  
CRS 9PRR402B

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ENGINE MODEL E4P-C  
ENGINE S/N (R)  
E4P-C-00203  
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  
A/C TSN: 382.7  
ENG TT (R): 382.7  
TACH: 382.7

**Right Engine Entries**

- (4) C/W ANNUAL INSPECTION ON RH 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 6 LITERS OF AEROSHELL DIESEL ULTRA 5W/30 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.
- (18) C/W MSB-E4-036 HPP INSPECTION AND REPLACEMENT. N/A BY HPP S/N
- (36) REPLACED RH ENGINE OIL SERVICE CAP WITH NEW PN DIN3771-37 77X2.62 AS REQUIRED.
- (38) REPAINTED RH ENGINE VALVE COVER IAW WITH 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 (R)  
E4P-C-00203  
REG. NO. 1815W  
WORK ORDER:  
9815-04-2022



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

DATE: 4/26/2022  
A/C TSN: 388.9  
ENG TT (R): 388.9  
TACH: 388.9

**Right Engine Entries**

- (2) REPLACED RH ENGINE BPA WITH NEW P/N E4A-41-300-801 AND WASTEGATE CONTROLLER WITH NEW P/N E4A-41-120-000 IAW E4-08-04 MM CH 81. ENG RUN UP CHECKED GOOD.

DATE: 4/26/2022

SIGNED:

Work Order: 9815-04-2022

EMMANUEL VICIOSO  
CRS 9PRR402B

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LICENCE:  
AME or  
AMO/ACA

ENGINE MODEL E4P-C  
ENGINE S/N (R):  
E4P-C-00203  
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  
A/C TSN: 455.2  
ENG TT (R): 455.2  
TACH: 455.2

**Right Engine Entries**

(4) C/W (DA62) 100 HR INSPECTION ON RH 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.  
(10) REMOVED AND REPLACED O-RINGS ON LH AND RH ENGINES DIP STICKS IAW AUSTRO MM CHAPTER 79  
(11) REMOVED AND REPLACED O-RING ON RH ENGINE OIL LEVEL AND TEMP SENSOR IAW AUSTRO MM CHAPTER 79  
(14) REMOVED AND REPLACE RH ENGINE FADEC WITH SERVICEABLE UNIT PN: E4A-92-100-000 S/N: 1464 IAW DIAMOND DA62 MM CHAPTER 78. PERFORMED ENGINE GROUND RUN-UP. OPS CHECKED GOOD.

DATE: 9/9/2022

SIGNED

SAMUEL TAVAREZ JR  
CRS 9PRR402B

Work Order: 9977-09-2022

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ENGINE MODEL E4P-C  
ENGINE S/N (R):  
E4P-C-00203  
REG. NO. 1815W  
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 (R): 464  
TACH: 464

**Right Engine Entries**

(4) C/W ANNUAL INSPECTION ON RIGHT 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.  
(27) MSB-E4-039 OIL ANALYSIS AND PISTON REPLACEMENT - N/A BY S/N.  
(28) REPLACED RH ENG HP FUEL PUMP BASE GASKET WITH NEW P/N DIN3771\_44X3\_ACM70 IAW E4-08-04 MM CH 73 PERFORMED ENGINE RUN OPS CHECKED GOOD. NO LEAKS DETECTED AT THIS TIME.  
(30) REPLACED RH ENG INTAKE MANIFOLD TO GEARBOX COOLANT HOSE WITH NEW P/N E4B-06-000-801 IAW DA62 MM CH 75-00. LEAK CHECKED GOOD.

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 9PRR402B

Work Order: 10019-10-2022

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N1516W

TTIS: 573.2

Model E4P-C

Engine Log BK

R/H E4P-C-00203

May 12, 2023

TTSO: 573.2

Performed 100 Hr. inspection on R/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 Right 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 100 HR inspection and has been determined Airworthy and returned to service.

James Catchings I/A & A/P 2769658, Jeremiah Gray A/P #4792396

