

# AIRCRAFT TECHNICAL RECORD

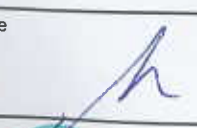

## Section 3. ENGINE LOG



## ENGINE LOG

- |                                  |                    |
|----------------------------------|--------------------|
| 1. Make:                         | Austro Engine GmbH |
| 2. Model:                        | E4P-C              |
| 3. Specification:                | E00081EN           |
| 4. Manufacturer's Serial Number: | E4P-C-06602        |
| 5. Date of Manufacture:          | FEBRUARY 11 2025   |
| 6. Aircraft Inspection Cycle:    |                    |



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>AE053167</b>	
4. Organisation Name and Address <b>Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wr. Neustadt, AUSTRIA</b>			5. Work Order / Contract / Invoice <b>ES250463</b>			
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-06602	New	
12. Remarks General The engine conforms to the type design approved by Canadian Department of Transport Type Certificate IE-68. Item 1 The engine conforms to EASA TCDS E.200 Issue 12; Damper assy P/N: D44-7306-30-00_1 (EASA Form1: AJ99400). Item 1 For compliance with airworthiness directives or service bulletins refer to engine log. Item 1 Fuel hose assy P/N: A24119-01 (EASA Form1: 251165). 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: <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.			
13b. Authorised Signature 		13c. Approval /Authorisation Number <b>AT.21G.0010</b>		14b. Authorised Signature		
13d. Name 		13e. Date (dd mmm yyyy) <b>11 FEB 2025</b>		14c. Certificate / Approval Reference Number		
		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

Austro Engine GmbH  
E4P-C  
E00081EN  
E4P-C-06602  
FEBRUARY 11 2025

number:



# Section 3A: Engine Service and Maintenance Log



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

Registration: N286LA  
AC Serial Number: 62.C102  
LH Engine Serial Number: E4P-C-06603  
RH Engine Serial Number: E4P-C-06602  
LH Prop Serial Number: 241933  
RH Prop Serial Number: 241932  
Airframe Total Time: 4.7 HRS

- **RH Engine** Total Time brought forward from Production Test Flight Journey Log (DAI - Form Q-224): 4.7 HRS
- RH Engine installed new on Aircraft DA 62, S/N: 62.C102
- **Bi-weekly AWD check carried out to current revision 2025-10 all applicable AD's complied with, see attached.**
- The work described above was carried out in accordance with the applicable Standard of Airworthiness.

   
Inspector

MAY 20 2025  
date

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AMO 161-93

Aircraft Reg: N286LA  
Work Order: S0075396

Date: June 26, 2025



	Model	Make	SN	TSN:	
Airframe	Diamond	DA 62	62.C102	TSN:	4.7 Hrs.
LH Engine	Austro	E4P-C	E4P-C-06603	TSN:	4.7 Hrs.
RH Engine	Austro	E4P-C	E4P-C-06602	TSN:	4.7 Hrs.
LH Prop	MT-Propeller	MTV-6-R-C-F/CF194-80	241933	TSN:	4.7 Hrs.
RH Prop	MT-Propeller	MTV-6-R-C-F/CF194-80	241932	TSN:	4.7 Hrs.

- RH engine Piston/Conrod replacement performed at this time. Reference Diamond Aircraft Industries Inc. AMO 161-93 Form One Tracking # RO-4974:
  - Piston replacement kit PN: E4A-72-300-KIT SN: 00088 installed:
    - Piston PN installed: E4A-72-300-000
    - Piston SN installed: #1 SN: WHI9, #2 SN: WHBV, #3 SN: WHAR, #4 SN: WHI4
  - Piston/Conrod replacement as noted above constitutes terminating action for the following MSB's & FAA AD's:
    - Austro MSB-E4-039/4 IAW Sec. 2.0
    - FAA AD 2025-02-12 IAW Sec. (h)
    - Austro MSB-E4-043/2 IAW Sec. 1.6.2
- RH Engine and propeller removed and reinstalled to facilitate Piston/Conrod replacement.
  - Engine serviced with 7 L aeroshell diesel ultra 5W30 oil.
  - Coolant system serviced with 50/50 mix distilled water and Glysantin Protect Plus G48 coolant PN: 10012425.
  - Gearbox serviced with Spirax 56 GXME 75W oil.
  - The following engine operational checks and inspections were performed following Piston/Conrod replacement and engine reinstallation:
    - CA-CR angle test, break-in-procedure, power evaluation, compression check, & leak check. Found serviceable.
  - Minor composite repair carried out on RH intercooler scoop at this time.
  - Propeller dynamic balance carried out at this time. No weight added. Final dynamic balance reading: 0.190 IPS @ 2000 RPM.

An independent inspection has been carried out on the engine controls effected by the work performed.

Signature:  ACA 

The maintenance described above has been performed in accordance with the applicable standards of airworthiness.

Signature:  ACA: 

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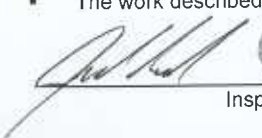
Section 3A: Engine Service and Maintenance Log



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

Registration:  
AC Serial Number  
LH Engine Serial I  
RH Engine Serial  
LH Prop Serial Nu  
RH Prop Serial Nu  
Airframe Total Tir

- RH Engine Total Time brought forward from Production Test Flight Journ
- RH Engine installed new on Aircraft DA 62, S/N: 62.C102
- Bi-weekly AWD check carried out to current revision 2025-10 all appl attached.
- The work described above was carried out in accordance with the applica

 DA 62 Q 111  
Inspector  
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AMO 161-93

Aircraft Reg: N286LA  
Work Order: 50075396

	Model	Make	SN
Airframe	Diamond	DA 62	62.C102
LH Engine	Austro	E4P-C	E4P-C-06603
RH Engine	Austro	E4P-C	E4P-C-06602
LH Prop	MT-Propeller	MTV-6-R-C-F/CF194-80	241933
RH Prop	MT-Propeller	MTV-6-R-C-F/CF194-80	241932



- RH engine Piston/Conrod replacement performed at this time. Reference Diamond Aircraft Industries Inc. AMO 161-93
  - Piston replacement kit PN: E4A-72-300-KIT SN: 00088 installed:
    - Piston PN installed: E4A-72-300-000
    - Piston SN installed: #1 SN: WHI9, #2 SN: WHBV, #3 SN: WHAR, #4 SN: WHI4
  - Piston/Conrod replacement as noted above constitutes terminating action for the following MSB's
    - Austro MSB-E4-039/4 IAW Sec. 2.0
    - FAA AD 2025-02-12 IAW Sec. (h)
    - Austro MSB-E4-043/2 IAW Sec. 1.6.2
- RH Engine and propeller removed and reinstalled to facilitate Piston/Conrod replacement.
  - Engine serviced with 7 L aeroshell diesel ultra 5W30 oil.
  - Coolant system serviced with 50/50 mix distilled water and Glysantin Protect Plus G48 coolant PN:
  - Gearbox serviced with Spirax 56 GXME 75W oil.
  - The following engine operational checks and inspections were performed following Piston/Conrod replacement:
    - CA-CR angle test, break-in-procedure, power evaluation, compression check, & leak of oil
  - Minor composite repair carried out on RH intercooler scoop at this time.
  - Propeller dynamic balance carried out at this time. No weight added. Final dynamic balance reading

An independent inspection has been carried out on the engine controls affected by the work described above.

Signature:  ACA 

The maintenance described above has been performed in accordance with the applicable standards.

Signature:  ACA 

1. Approving Civil Aviation Authority/Country <b>Transport Canada</b>		2. <b>AUTHORIZED RELEASE CERTIFICATE Form One</b>			3. Form Tracking Number: RO-4974	
4. Organizations Name and Address: DIAMOND AIRCRAFT INDUSTRIES INC. 1560 CRUMLIN SIDEROAD, LONDON, ONTARIO CANADA N5V 1S2				5. Work Order/Contract/Invoice SO075396		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial/Batch Number:	11. Status/Work:	
1	Austro Engine	E4P-C-00-000-BHY	1	E4P-C-06602	Repaired	
12. Remarks: Piston/Conrod replacement carried out IAW Austro M.M. E4.08.04 Rev. 32 Ch. 85-30-00 (5). Piston replacement kit PN: E4A-72-300-KIT SN: 00088 installed, Piston PN installed: E4A-72-300-000 Piston SN installed: #1 SN: WHI9, #2 SN: WHBV, #3 SN: WHAR, #4 SN: WHI4. Piston/Conrod replacement as stated above constitutes terminating action for the following MSB's & FAA AD's: Austro MSB-E4-039/4 IAW Sec. 2.0 FAA AD 2025-02-12 IAW Sec. (h) Austro MSB-E4-043/2 IAW Sec. 1.6.2 <b>All engine fluids will need to be filled to the appropriate levels before ground runs are performed.</b> The following engine operational checks and inspections to be performed following engine reinstallation: #1:CA-CR angle test IAW Austro M.M. E4.08.04 Rev. 32 CH 85-40-00(5), #2 break-in-procedure & power evaluation IAW Austro M.M. E4.08.04 Rev. 32 CH 05-06-00(6), #3 compression check IAW Austro M.M. E4.08.04 Rev. 32 CH 05-06-00(2). After ground run the following needs to be re-torqued and lock wired IAW Austro M.M. E4.08.04 Rev. 32. HPP banjo bolt of the fuel return line IAW Austro M.M. E4.08.04 Rev. 32 CH 73-10-03(8). Turbocharger oil supply line banjo bolt IAW Austro M.M. E4.08.04 Rev. 32 CH 79-20-00(8). Turbocharger oil return line banjo bolt at oil sump IAW Austro M.M. E4.08.04 Rev. 32 CH 79-20-00(9).						
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input checked="" type="checkbox"/> CAR 571.10 Maintenance Release <input type="checkbox"/> Other regulations specified in Block 12 Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12, has been performed in compliance with the <i>Canadian Aviation Regulations</i> .			
13b. Signature		13c. Approval Organization Number	14b. Signature 	14c. Approved Organization Number AMO 161-93		
13d. Name		13e. Date (dd/mm/yy):	14d. Name: John Kennedy	14e. Date (dd/mm/yyyy): 17/JUN/2025		
30 Dec 2008(Previously form 24-0078)						
<b>Installer Responsibilities</b>						
This certificate does not constitute authority to install. Installers working in accordance with the national regulations of a country other than the authority specified in Block 1, must ensure that their regulations recognize certifications from the country specified. Statements 13a or 14a do not constitute installation certification. In all cases, the aircraft technical record must contain an installation certification issued in accordance with the applicable national regulations before the aircraft may be flown.						

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

Registration:  
AC Serial Number  
LH Engine Serial I  
RH Engine Serial  
LH Prop Serial Nu  
RH Prop Serial Nu  
Airframe Total Tin

- RH Engine Total Time brought forward from Production Test Flight Journ
- RH Engine installed new on Aircraft DA 62, S/N: 62.C102
- Bi-weekly AWD check carried out to current revision 2025-10 all appl attached.
- The work described above was carried out in accordance with the applica

*[Signature]*  
Inspector  
DA 62  
Q 111  
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AMO 161-93

Aircraft Reg: N286LA  
Work Order: S0075396

Model	Make	SN
Airframe	Diamond	DA 62
LH Engine	Austro	E4P-C
RH Engine	Austro	E4P-C
LH Prop	MT-Propeller	MTV-6-R-C-F/CF194-80
RH Prop	MT-Propeller	MTV-6-R-C-F/CF194-80

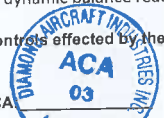
- RH engine Piston/Conrod replacement performed at this time. Reference Diamond Aircraft Industries Inc. AMO 161-93
  - Piston replacement kit PN: E4A-72-300-KIT SN: 00088 installed:
    - Piston PN installed: E4A-72-300-000
    - Piston SN installed: #1 SN: WHI9, #2 SN: WHBV, #3 SN: WHAR, #4 SN: WHI4
  - Piston/Conrod replacement as noted above constitutes terminating action for the following MSB's
    - Austro MSB-E4-039/4 IAW Sec. 2.0
    - FAA AD 2025-02-12 IAW Sec. (h)
    - Austro MSB-E4-043/2 IAW Sec. 1.6.2
- RH Engine and propeller removed and reinstalled to facilitate Piston/Conrod replacement.
  - Engine serviced with 7 L aeroshell diesel ultra 5W30 oil.
  - Coolant system serviced with 50/50 mix distilled water and Glysantin Protect Plus G48 coolant PN:
  - Gearbox serviced with Spirax S6 GXME 75W oil.
  - The following engine operational checks and inspections were performed following Piston/Conrod
    - CA-CR angle test, break-in-procedure, power evaluation, compression check, & leak c
  - Minor composite repair carried out on RH intercooler scoop at this time.
  - Propeller dynamic balance carried out at this time. No weight added. Final dynamic balance readin

An independent inspection has been carried out on the engine controls effected by the w

Signature: *[Signature]* ACA

The maintenance described above has been performed in accordance with the applicable stand

Signature: *[Signature]* ACA



RH - 62.C102

<b>Scope of Supply</b>	Part number <b>E4A-72-300-KIT</b>
<b>Austro Engine</b>	Date (DDMMYY) <b>25.03.25</b>
Description / Version <b>KS Piston replacement Kit</b>	Serial No.: <b>00088</b>
Job number: <b>EWO251264</b>	

Qty.	Description	Part Number	Rev.	S/N or Batch No.	Outgoing Check	Customer Check
1	Zylinderkopfschraube	E4A-01-000-201	AA1	W0278185		
2	Zylinderkopfdichtung	E4A-01-000-409	AA1	36454892		
3	Dichtung f. Ölwanne	E4A-05-000-003	AA1	1262056022		
4	Nordlock Washer	NLB	000	G9290-1		
5	ZB Kolben	E4A-72-300-000	AA3	20169723		
6	ZB Pleuel	E4A-72-500-000	AB2	WHAR, WHBV, WHH4, WHI9		
7	Pleuellager untere Hälfte	E4A-72-500-415	AA4	4286883		
8	Pleuellager obere Hälfte	E4A-72-500-414	AA4	4286884		
9	O-Ring 16x3 ACM	DIN3771-16X3-ACM70	AA1	3063305		
10	Dichtring	E4A-76-400-401	AB1	10573348		
11	O-Ring 9X2.5-FPM75	OR_9X2.5-FPM75	AA1	3120716		
12	O-Ring 6x2-FPM75	OR_6X2-FPM75	000	3122679		
13	Dichtung AU 60ACM	E4A-01-000-401	AA2	0023551264		
14	Dichtung IN 60ACM	E4A-01-000-402	AA2	0025116040		

Date: (DDMMYY) <b>25 MAR 2025</b>	Sign: <i>[Signature]</i>
Date: (DDMMYY)	Sign:

Date: (DDMMYY)	Sign:
Date: (DDMMYY)	Sign:

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Section 3A: Engine Service and Maintenance Log



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

Registration:  
AC Serial Number  
LH Engine Serial I  
RH Engine Serial  
LH Prop Serial Nu  
RH Prop Serial Nu  
Airframe Total Tir

- RH Engine Total Time brought forward from Production Test Flight Journ
- RH Engine installed new on Aircraft DA 62, S/N: 62.C102
- Bi-weekly AWD check carried out to current revision 2025-10 all appl attached.
- The work described above was carried out in accordance with the applica

*[Signature]*  
Inspector

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AMO 161-93

Aircraft Reg: N286LA  
Work Order: 50075396

	Model	Make	SN
Airframe	Diamond	DA 62	62.C102
LH Engine	Austro	E4P-C	E4P-C-06603
RH Engine	Austro	E4P-C	E4P-C-06602
LH Prop	MT-Propeller	MTV-6-R-C-F/CF194-80	241933
RH Prop	MT-Propeller	MTV-6-R-C-F/CF194-80	241932

- RH engine Piston/Conrod replacement performed at this time. Reference Diamond Aircraft Industries Inc. AMO 161-93
  - Piston replacement kit PN: E4A-72-300-KIT SN: 00088 installed:
    - Piston PN installed: E4A-72-300-000
    - Piston SN installed; #1 SN: WH19, #2 SN: WHBV, #3 SN: WHAR, #4 SN: WH14
  - Piston/Conrod replacement as noted above constitutes terminating action for the following MSB's
    - Austro MSB-E4-039/4 IAW Sec. 2.0
    - FAA AD 2025-02-12 IAW Sec. (h)
    - Austro MSB-E4-043/2 IAW Sec. 1.6.2
- RH Engine and propeller removed and reinstalled to facilitate Piston/Conrod replacement.
  - Engine serviced with 7 L aeroshell diesel ultra 5W30 oil.
  - Coolant system serviced with 50/50 mix distilled water and Glystantin Protect Plus G48 coolant PN:
  - Gearbox serviced with Spirax S6 GXME 75W oil.
  - The following engine operational checks and inspections were performed following Piston/Conrod
    - CA-CR angle test, break-in-procedure, power evaluation, compression check, & leak ct
  - Minor composite repair carried out on RH intercooler scoop at this time.
  - Propeller dynamic balance carried out at this time. No weight added. Final dynamic balance readin

An independent inspection has been carried out on the engine controls effected by the w

Signature: *[Signature]* ACA

The maintenance described above has been performed in accordance with the applicable standi

Signature: *[Signature]* ACA



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>AE054031</b>
4. Organisation Name and Address <b>Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wr. Neustadt, AUSTRIA</b>		5. Work Order / Contract / Invoice <b>ES251517</b>			
6. Item	7. Description	8. Part No.	9. Quantity	10. Serial No.	11. Status / Work
1	KS Piston replacement Kit	E4A-72-300-KIT Iss. 000	5	00049,00050,00051,00052,00053	New
	KS Piston replacement Kit	E4A-72-300-KIT Iss. 000	5	00054,00055,00056,00057,00058	New
	KS Piston replacement Kit	E4A-72-300-KIT Iss. 000	5	00059,00060,00061,00062,00063	New
	KS Piston replacement Kit	E4A-72-300-KIT Iss. 000	5	00064,00065,00066,00067,00068	New
	KS Piston replacement Kit	E4A-72-300-KIT Iss. 000	5	00069,00070,00071,00072,00073	New
	KS Piston replacement Kit	E4A-72-300-KIT Iss. 000	5	00074,00075,00076,00077,00078	New
	KS Piston replacement Kit	E4A-72-300-KIT Iss. 000	5	00079,00080,00081,00082,00083	New
	KS Piston replacement Kit	E4A-72-300-KIT Iss. 000	5	00084,00085,00086,00087,00088	New
	KS Piston replacement Kit	E4A-72-300-KIT Iss. 000	5	00089,00090,00091,00092,00093	New
	KS Piston replacement Kit	E4A-72-300-KIT Iss. 000	5	00094,00095,00096,00097,00098	New
12. Remarks Item 1 Pistons with p/n E4A-72-300-000 are installed Item 1 Parts contained in the KIT, see attached Scope of Supply					
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					
13b. Authorised Signature <i>[Signature]</i>		13c. Approval / Authorisation Number <b>AT.21G.0010</b>		14. Authorised Signature <i>[Signature]</i>	
13d. Name <i>[Signature]</i>		13e. Date (dd mmm yyyy) <b>24 APR 2025</b>		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.					

EASA Form 1 - 21 Issue 2  
Freigegeben: 02.07.2024 | M. Ernstberger

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