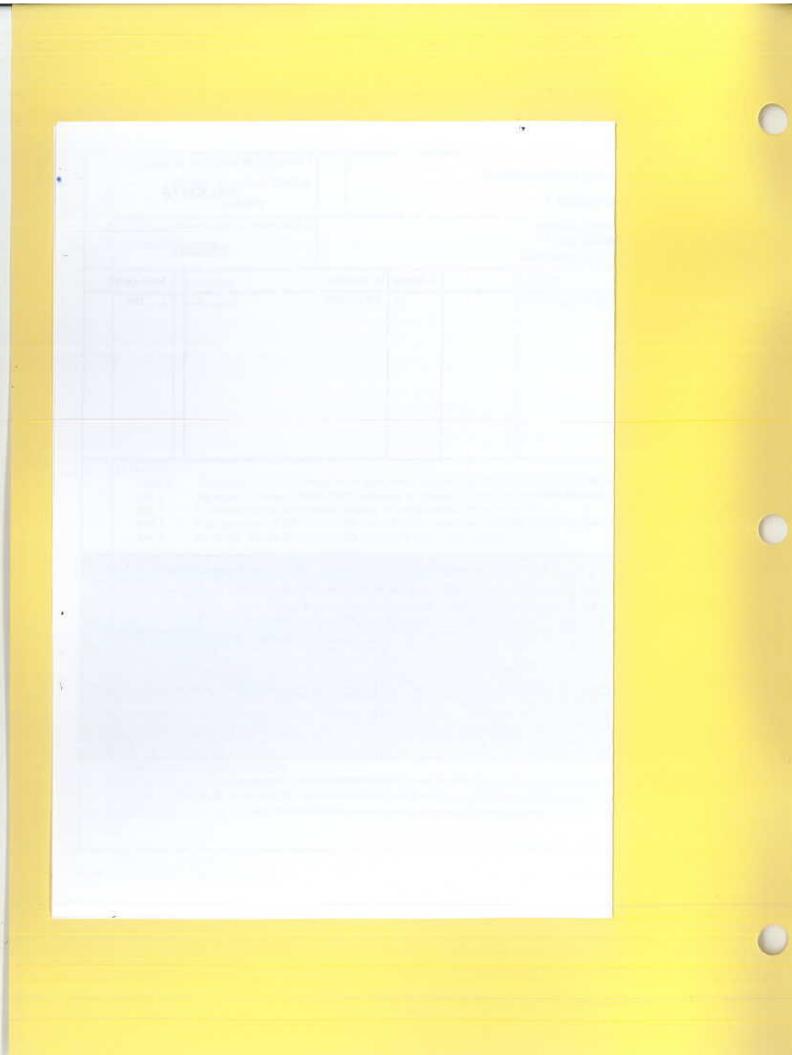
# AIRCRAFT TECHNICAL RECORD

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-06603

5. Date of Manufacture:

FEBRUARY 11 2025

6. Aircraft Inspection Cycle:

	g Competent Authority / Country  Austro Control GmbH  Austria	AUTH	ORISED RELEASE CERTIFICAT EASA FORM 1	ſΕ		3. Form Tracking Number AE05	53179
4. Organisa Name	tion and Address		Austro Engine GmbH Rudolf Diesel Straße 11 2700 Wr. Neustadt, AUSTRIA			5. Work Order / Contract / I	nvoice
i. Item	7. Description	8. Part		Q. Quantita	10. Serial No.	1020	
1	E4PC Engine	E4PC	-00-000-BHY lss. 008	1	E4P-C-06603		11. Status / Work
Item 1 Item 1 Item 1	Fuel hose assy P/N: A24119-01 (EAS	in condition for safe operation	E APA_Pulsationsdämpfer-Aufbau_190618.  14a. Part-145.A.50 Re  Certifies that unless otherwise s and described in block 12 was a	specified in block 12 the accomplished in accord	work identified in lance with Part-145	Other regulation specified in block 11 and in	n block 12
. Authorise	od Signature	13c. Approval /Authorisation Number AT.21G.0010	respect to that work, the items at 14b. Authorised Signature			porova Reference Number	
d. Name	Certi, Staff	13e. Date (dd mmm yyyy)  1 1 FEB 2025	14d. Name		4e. Date (dd mmn	n yyyy)	
	ALLER RESPONSIBILITIES		rforms work in accordance with regulations of an				

# **ENGINE LOG**

Austro Engine GmbH

E4P-C

E00081EN

lumber:

E4P-C-06603

FEBRUARY 11 2025

e:

TOTALS SINCE NEW

I I I	ī		
Diamond AIRCRAFT  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	ED:	
<ul> <li>LH Engine installed new on Aircraft DA 62, S/N: 62</li> <li>Bi-weekly AWD check carried out to current revattached.</li> </ul>	ction Test Flight Journey Log (DAI - Form Q-224): 4.7 HRS .C102 ision 2025-10 all applicable AD's complied with, see dance with the applicable Standard of Airworthiness.		
Inspector (Intentionally left blan	MAY 2 0 2025  date		
(internally left blain	Color die pointy		
Diamond AIRCRAFT  AIRCRAFT  AIRCRAFT  Aircraft Reg: N286LA  Work Order: S007539			
Model   Make	SN         4.7 Hrs.           62.C102         TSN; 4.7 Hrs.           E4P-C-06603         TSN; 4.7 Hrs.           E4P-C-06602         TSN; 4.7 Hrs.           241933         TSN; 4.7 Hrs.           241932         TSN; 4.7 Hrs.		
CA-CR angle test, break-in-procedure, power evaluation Propeller dynamic balance carried out at this time. No weight adde  An independent inspection has been carried out on the er  Signature	XDJ3, #4 SN: XDKE graction for the following MSB's & FAA AD's:  lacement.  in Protect Plus G48 coolant PN: 10012425.  ormed following Piston/Conrod replacement and engine reinstallation: on, compression check, & leak check. Found serviceable. d. Final dynamic balance reading: 0.120 IPS @ 2000 RPM.  orgine control injected by the work performed.  ACA  ACA  ACA  ACA  ACA		
The maintenance described above has been performed in accord	ACA:  ACA:		
	7MU 101		
THIS PAGE TOTALS		0	
PREVIOUS TOTALS			

CARRY FORWARD to Top of Next Page



D.O.T. APPROVED MANUFACTURER #161-93

Registration: AC Serial Number: LH Engine Serial Nur RH Engine Serial Nu LH Prop Serial Numb RH Prop Serial Numb Airframe Total Time:

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

Inspector

(Intentionally left blank below this point)



Aircraft Reg: N286LA

### AMO 161-93

	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

# The following work has been performed:

- LH engine Piston/Conrod replacement performed at this time. Reference Diamond Aircraft Industries Inc. AMO
  - Piston replacement kit PN: E4A-72-300-KIT SN: 00082 installed:
    - Piston PN installed: E4A-72-300-000
    - Piston SN installed: #1 SN: XDQQ, #2 SN: XDO2, #3 SN: XDJ3, #4 SN: XDKE
  - 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
- LH 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 cl

Propeller dynamic balance carried out at this time. No weight added. Final dynamic balance readin 03

	Th	e maintenance des	scribed above has bee	n performed in acco	rdance with
			Signature	1	ACA:
-					
THIS PAGE TOTALS					
PREVIOUS TOTALS					
TOTALS SINCE NEW					CAR

Auth	ving Civil Aviation nority/Country	2.		CLEASE CERTIFICATE		3. Form Tracking Number:  RO-4975
4. Organiz	izations Name and Addres	DIAMO	OND AIRCRAFT INDUSTRIES EROAD, LONDON, ONTARIO			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-E	BHY I	E4P-C-06603	Repaired
The following e 05-06-00(6), #3 After ground rt. HPP banjo bolt Turbocharger o Turbocharger of Turbocharger o	3 compression check IAW Austro M. un the following needs to be re-torq t of the fuel return line IAW Austro N oil supply line banjo bolt IAW Austro N oil return line banjo bolt at oil sump lifies that the items identifie Approved design data and Non-approved design data	ctions to be performed following e M. E4,08.04 Rev. 32 CH 05-06-00(2) used and lock wired IAW Austro M. M.M. E4.08.04 Rev. 32 CH 73-10-03 M.M. E4.08.04 Rev. 32 CH 79-20-0 IAW Austro M.M. E4.08.04 Rev. 32 ed above were manufactudary are in a condition for sa a specified in Block 12.	engine reinstallation: #1:CA-CR angle test IAV ). M. E4.08.04 Rev. 32. (B). 100(8). 101 CH 79-20-00(9). Pared in conformity to: 101 afe operation.	14a. ☑ CAR 571.10 Main ☐ Other regulations Certifies that unless of and described in Block Aviation Regulations.	ntenance Release s specified in Block 12 otherwise specified in Block	12, the work identified in Block 11 compliance with the Canadian
13b. Signa	ature		3c. Approval Organization Jumber	14b. Signature	ACA (1888)	14c. Approved Organization Number AMO 161-93
13d. Namo	e	1	3e. Date (dd/mm/yy):	14d. Name:		14e. Date (dd/mmm/yyyy):
		<b>Hall British</b>	STRUE LINE A	John Kennedy		17/JUN/2025
30 Dec 2008	8(Previously form 24-0078)					
Installers v	icate does not constitute a working in accordance wit			desponsibilities uthority specified in Block 1, mu	ust ensure that their regulat	ions recognize certifications from the

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.

RRY FORWARD to Top of Next Page



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

Registration: AC Serial Number: LH Engine Serial Nur RH Engine Serial Nul LH Prop Serial Numb RH Prop Serial Numb Airframe Total Time:

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

(Intentionally left blank below this point)



SINCE NEW

Aircraft Reg: N286LA Work Order: S0075396

	Model	Make	SN
Airframe	Diamond	DA 62	62.C102
LH Engine	Austro	E4P-C	E4P-C-06603
RH Engine	Austro	F4P-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

# The following work has been performed:

- LH engine Piston/Conrod replacement performed at this time. Reference Diamond Aircraft Industries Inc. AMO
  - Piston replacement kit PN: E4A-72-300-KIT SN: 00082 installed:
    - Piston PN installed: E4A-72-300-000
    - Piston SN installed: #1 SN: XDQQ, #2 SN: XDO2, #3 SN: XDJ3, #4 SN: XDKE
    - 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
- LH 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 ch 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 ACA The maintenance described above has been performed in according

			02
			WO 167:35
-			
THIS PAGE TOTALS			
PREVIOUS TOTALS			
TOTALS			

. Approving Competent Authority / Country Austro Control GmbH 3. Form Tracking Number AUTHORISED RELEASE CERTIFICATE Austria EASA FORM 1 AE054031 4. Organisation Name and Address Austro Engine GmbH 5. Work Order / Contract / Invoice Rudolf Diesel Straße 11 2700 Wr. Neustadt, AUSTRIA 7. Description ES251517 8. Part No. KS Piston replacement Kit 9. Quantity 10. Serial No. E4A-72-300-KIT Iss. 000 11. Status / Work KS Piston replacement Kit 00049,00050,00051,00052,00053 E4A-72-300-KIT Iss. 000 KS Piston replacement Kit 00054,00055,00056,00057,00058 E4A-72-300-KIT Iss. 000 KS Piston replacement Kit 00059,00060,00061,00062,00063 E4A-72-300-KIT Iss. 000 KS Piston replacement Kit 00064,00065,00066,00067,00068 E4A-72-300-KIT Iss. 000 KS Piston replacement Kit 00069,00070,00071,00072,00073 E4A-72-300-KIT iss. 000 KS Piston replacement Kit 00074,00075,00076,00077,00078 E4A-72-300-KIT iss. 000 KS Piston replacement Kit 00079,00080,00081,00082,00083 E4A-72-300-KIT iss. 000 KS Piston replacement Kit 00084,00085,00086,00087,00088 E4A-72-300-KIT iss. 000 KS Piston replacement Kit 00089,00090,00091,00092,00093 12. Remarks E4A-72-300-KIT Iss. 000 00094,00095,00096,00097,00098 Item 1 Pistons with p/n E4A-72-300-000 are installed Parts contained in the KIT, see attached Scope of Supply Item 1 REFER TO AE054031-1 The said 13a. Certifies that the items identified above were manufactured in comformity to: 190 X approved design data and are in condition for safe operation Partit of Aribi Reliadad to Service Other requiation specified interest 19 an lies that unless otherwise specified in glock 12 the work joen inch inchase 31 non-approved design data specified in block 12 nd described in clack 12 was not cap listed in accordance with Back Albana in shoot to that work the frame are considered medy frame above service. 13b. Authorised Signature 13c. Approval /Authorisation Number 46: Gerhäum (Aerthia Reference Number) AT.21G.0010 13d. Name 13e. Date (dd mmm yyyy) III. Name 2 4 APR 2025

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. Emstberger

CARRY FORWARD to Top of Next Page

FOQ05\_Form1



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

Registration AC Serial Number: LH Engine Serial Nur RH Engine Serial Nui LH Prop Serial Numb RH Prop Serial Numb Airframe Total Time:

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

Inspector (Intentionally left blank below this point)



# Aircraft Reg: N286LA Work Order: S0075396

_	_	_	_		_

SINCE NEW

WILL TOT DO			SN
	Model	Make	The second secon
Airframe LH Engine RH Engine LH Prop	Diamond Austro Austro MT-Propeller	DA 62 E4P-C E4P-C MTV-6-R-C-F/CF194-80 MTV-6-R-C-F/CF194-80	62,C102 E4P-C-06603 E4P-C-06602 241933 241932
RH Prop	MT-Propeller	WIT V-0-11 O 1701 TO 1 00	

The following work has been performed:

- UH engine Piston/Conrod replacement performed at this time. Reference Diamond Aircraft Industries Inc. AMO
  - Piston replacement kit PN: E4A-72-300-KIT SN: 00082 installed:
    - Piston PN installed: E4A-72-300-000
    - Piston SN installed: #1 SN: XDQQ, #2 SN: XDO2, #3 SN: XDJ3, #4 SN: XDKE
  - 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
- LH 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

An independent inspection has been carried out on the engine con

- CA-CR angle test, break-in-procedure, power evaluation, compression check, & leak ch
  - Propeller dynamic balance carried out at this time. No weight added. Final dynamic balance readin

The maintenance described above has been performed in accordance with the

PREVIOUS TOTALS TOTALS

The state of the s	Supply		Part number	E4A-72-300-KIT	Date (DDMMYY)	25.03.25
64.6(02	Scope of Supply	Motor Identification		KS Piston replacement Kit	Serial No.:	00082
した	Austro Engine	7	Description / Version	KS Pistor	Job number.	EW0251258

2         1 Dightung Lölwanne         E4A-01-000-201         AA1         N0278185         A. Set-6892         Patriolist           3         1 Dightung Lölwanne         E4A-01-000-409         AA1         1782036022         Patriolist           4         3 Nordicck Washer         NLB         000         G9290-12         Patriolist           5         4 E Stolben         E4A-72-300-000         AA3         20159723         Patriolist           6         4 E Stolben         E4A-72-500-000         AA2         20159723         Patriolist           7         4 Pleuellager untere Halfre         E4A-72-500-414         AA4         428883         Patriolist           8         4 Pleuellager obere Hälfre         E4A-72-500-414         AA4         428883         Patriolist           9         1 O-Ring 6x2 FPM75         OR 9x2-5-FPM75         000         3122716         Patriolist           10         1 O-Ring 6x2 FPM75         OR 9x2-5-FPM75         000         3122716         Patriolist           11         1 Dichtung IN 60ACM         E4A-01-000-402         AA2         0025116040         Patriolist           12         1 Dichtung IN 60ACM         E4A-01-000-402         AA2         0025116040         Patriolist           14 <th></th> <th>City.</th> <th>Description</th> <th>Part Number</th> <th>Rev.</th> <th>S/N or Batch No.</th> <th>Omgoing Check</th> <th>Customer Check</th>		City.	Description	Part Number	Rev.	S/N or Batch No.	Omgoing Check	Customer Check
1    Zylinderkapfdichtung	-	10	Zylinderkopfschraube	E4A-01-000-201	AA1	W0278185	N D	
1   Dichtung f. Olwanne	Ç4	-	Zylinderkopfdichtung	E4A-01-000-409	AA1	36454892	P. Station !!	
Sign:   Nortdlock Washer	03		Dichtung f. Ölwanne	E4A-05-000-003	AA1	1262056022	Come of	
A	4	m	Nordlock Washer	NL8	000	G9290-1	Contractor of	
4 Pleuellager untere Hälfte	9	9	ZB Kolben	E4A-72-300-000	A.A.3	20159723	P. Schöller V	
4   Pleuellager unfere Häfte   E4A-72-500-415   AAA   428683   AND     4   Pleuellager obere Häfte   E4A-72-500-414   AAA   428684   CET 6711     5   Ping 16x3 ACM   DiN3771-16X3-ACM70   AAI   3063305   CET 6711     5   Ping 3X2.5-FPM75   OR 9X2.5-FPM75   AAI   3120716   CET 6713     5   PRING 9X2.5-FPM75   OR 9X2.5-FPM75   AAI   3120716   CET 6713     1   Dichtung AU 60ACM   E4A-01-000-401   AA2   0023531264   CET 6711     1   Dichtung IN 60ACM   E4A-01-000-402   AA2   0025116040   CET 6711     1   Dichtung IN 60ACM   E4A-01-000-402   AA2   0025116040   CET 6711     2   PAR 21025   AA3   Sign:   Sign:   Sign:   Sign:   Sign:     1   Dichtung IN 60ACM   Date: (DDMMYY)   Sign:	0	4	ZB Pleuel	E4A-72-500-000	AB2	XDJ3,XDKE,XDO2,XI	17.210	
4   Pieueliager obere Hälite   E4A-72-500-414   AAI   428684   AII   A	7	4	Pleuellager untere Hälfte	E4A-72-500-415	A,A,4	428683	Para suco	
1 O-Ring 16x3 ACM	80	ŧ	Pleuellager obere Hälfte	E4A-72-500-414	AAA	428684	: ( com	
1	· Gi	-	O-Ring 16x3 ACM	DIN3771-16X3-ACM70	AA1	3063305	Jan Sun J	
1 O-Ring 9X2.5-FPM75	10	-	Dichtring	E4A-76-400-401	AB1	10573348	1210.00	
1 O-Ring 6x2 FPM75   OR 6x2-FPM75   OD0 3122679     1 Dichtung AU GOACM	2.1	Ŧ	O-Ring 9X2.5-FPM75	OR_9X2.5-FPM75	AA1	3120716	Court True Cale	
1 Dichtung AU 60ACM   E4A-01-000-401   AA2   0023531264   C+++++++++++++++++++++++++++++++++++	12	**	O-Ring 6x2 FPM75	OR_6X2-FPM75	000	3122679	W. D	
Dichtung IN 60ACM   E4A-01-000-402   M2   0025116040   September	53	÷	Dichtung AU 60ACM	E4A-01-000-401	AAZ	0023531264	Cont. No. of	
Date: (DDMMYY)  2 5 MAR 2025  Incoming Check  Incoming Check  Sign:  Sign:  Incoming Check  Sign:  S	14	+	Dichtung IN 60ACM	E4A-01-000-402	AA2	0025116040	Pane.	
2 5 MAR 2025  I Sign:  Incoming Check  Bign:  Bate: (DDMMYY)  Sign:  State:  Bate: (DDMMYY)				Delivery Ci	heck			
1 5 MAR 2025    Shall   Shall	Staff			Date; (DDMMYY)		Sign:	0	Stampi
Incoming Check Sign			Pasto English	2 5 MAR 2025		10	All Della	S SECTION OF THE SECT
Date: (DDMMYY)				Incoming C	theck	1		
	Staff	gr.		Date: (DDMMYY)		Sign		Stamp:
			-					

		Stamp	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9		Stamp:		
		Sign:	Contraction of the second		)	Signi		
1-000-40Z	Delivery Check	Date; (DDMMYY)	2 5 MAR 2025		Incoming Check	Date: (DDMMYY)		
Dictional IN SOCIAL			ANG CON	64.5			*	120
4		Staff				Staff		

CARRY FORWARD to Top of Next Page

ACA

Section 3B: Record of Engine Airworthiness Directives (A/D) and Service Bulletins							
DATE	A/D, S/B, S/I, MODS	DETAILS OF REPAIRS, ADJUSTMENTS, MODIFICATIONS	0		NAME/ SIGNATURE	LICENCE: AMEOR AMO/ACA	
	<ul> <li>The following STC's are incorporated:         <ul> <li>No STC's incorporated.</li> </ul> </li> <li>For a detailed list of AD's, MSB's, and SB's re Inc. AD Summery, Service Bulletin Listing Do Bi-weekly AWD check carried out to currel attached.</li> </ul>	Registration: N286LA AC Serial Number: 62.C102 LH Engine Serial Number: E4P-C-06603 RH Engine Serial Number: 241933 RH Prop Serial Number: 241932 Airframe Total Time: 4.7 HRS  Production Test Flight Journey Log (DAI - Form Q-224): 4.7 HRS //N: 62.C102  eference both Austro Engine Book and Diamond Aircraft Industries cument No. DAIIBBCE4PC-MC01. nt revision 2025-10 all applicable AD's complied with, see accordance with the applicable Standard of Airworthiness.  MAY 2 0 2025					
	Inspector (Intentionally left	date t blank below this point)	-0-	0			
•//							
<b>9</b> )							
			10				
			0				