

AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG

AUTHORISED RELEASE CERTIFICATE **EASA FORM 1** **Austro Engine GmbH** **Rudolf Diesel Straße 11** **2700 Wr. Neustadt, AUSTRIA**

1. Approving Competent Authority / Country Austro Control GmbH Austria		2.		3. Form Tracking Number AE046730	
4. Organisation Name and Address		5. Work Order / Contract / Invoice ES232409		11. Status / Work New	
6. Item	7. Description	8. Part No.	9. Quantity	10. Serial No.	
1	Engine Configuration A	E4A-00-000-BHY Iss. 014	1	E4A-06674	
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: AJ82867)					
Item 1 Fuel hose assy P/N: A24119-01 (EASA Form1: 242358). Cleaned and installed acc. AE APA_Pulsationsdämpfer-Aufbau_190618.					
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					
13b. Authorised Signature		13c. Approval /Authorisation Number		14a. ☐ Part-145 A20 Release to Service	
		AT.21G.0010		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.	
13d. Name		13e. Date (dd mmm yyyy)		14b. Authorised Signature	
		15 SEP 2023		14c. Certificate / Approval Reference Number	
USER / INSTALLER RESPONSIBILITIES		14d. Name		14e. Date (dd mmm yyyy)	
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: | E4-A |
| 3. Specification: | E00081EN |
| 4. Manufacturer's Serial Number: | E4-A-06674 |
| 5. Date of Manufacture: | SEPTEMBER 15 2023 |
| 6. Aircraft Inspection Cycle: | |



Section 3A: Engine Service and Maintenance Log



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

Registration: N896PA
AC Serial Number: 40.NC276
Engine Serial Number: EA-A-06674
Prop Serial Number: 231581
Airframe Total Time: 3.2 HRS

- Total Time Engine Brought forward from Flight Test Journey Log (DAI - Form Q-157): 3.2 HRS
- Engine installed new on Aircraft DA 40 NG, S/N: 40.NC276
- Bi-weekly AWD check carried out to current revision 2023-23 all applicable AD's complied with, see attached.
- The work described above was carried out in accordance with the applicable Standard of Airworthiness.

DA
Q8
Inspector

NOV 09 2023

Date

(Intentionally left blank below this point)

01136 (02-23-2024)

Page 1 / 1

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC276
REG. NO.: N896PA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4-A
ENGINE SN: E4-A-06674



400 Herdon Ave
Orlando, FL 32803

W/O #: 01136
DATE: 02-23-2024
A/C TT: 99.8
A/C Tach: 99.8
ENG TT: 99.8

Entries

- C/W 100 / 200 HR ENGINE INSPECTION ON ENGINE IAW 14 CFR PART 43, APPENDIX "D" USING AUSTRO E4-08-04 MM AND DIAMOND MM CHECKLIST AS A GUIDE.
- CHANGED OIL, FILTER AND SERVICED WITH 7 QT'S AERO SHELL DIESEL ULTRA 5W-30.
- REPLACED FUEL FILTER.
- CUT OPEN FILTER, NO METAL NOTED.
- PERFORMED GEARBOX AND FILTER CHECK. NO METAL NOTED. SERVICED TO CORRECT LEVEL.
- COMPLIED WITH AD 16-23-03 TURBO V-BAND CLAMP INSP.
- GROUND RUN ACCOMPLISHED. NO FAULTS NOTED.
- REMOVED AND REPLACED PROP GOV PER AUSTRO MM 85-00-00.
NEW S/N Z2G1096-KH

I certify that this Engine has been inspected IAW 14CFR Part 43 Appendix D 100hr inspection and was determined to be in airworthy condition.

DATE: 02-23-2024

SIGNED: *Kerry Delhomme*

Kerry Delhomme
A&P: 3473912

WORK ORDER: 01136

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01174 (02-23-2024)

Page 1 / 1

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC276
REG. NO.: N896PA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4-A
ENGINE SN: E4-A-06674



400 Herdon Ave
Orlando, FL 32803

W/O #: 01174
DATE: 02-23-2024
A/C TT: 99.8
A/C Tach: 99.8
ENG TT: 99.8

Entries

- COMPLIED WITH MSB -E4-042 CRANKSHAFT BEARING CAP SCREW REPLACEMENT PER AUSTRO WI-MSB-E4-042 AND MM 85-00-00. RAN ENGINE, LK AND OPS CK GOOD. NO DISCREPANCIES NOTED.

I certify that this aircraft has been inspected for the work performed above and was determined to be in airworthy condition, and returned to service.

DATE: 02-23-2024

SIGNED: *Kerry Delhomme*

Kerry Delhomme
A&P: 3473912

WORK ORDER: 01174

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TOTALS

TOTALS
SINCE NEW

CARRY

of Next Page

NAME/
SIGNATURELICENCE:
NAME OF
ENGINEER

01206 (04-05-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC276
REG. NO: N896PA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4-A
ENGINE SN: E4-A-06674

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

Page 1 / 1

W/O #: 01206
DATE: 04-05-2024
A/C TT: 200.4
A/C Tach: 200.4
ENG TT: 200.4

Entries

- 2 - C/W 100 / 200 HR ENGINE INSPECTION ON ENGINE IAW 14 CFR PART 43, APPENDIX "D" USING AUSTRO E4-08-04 MM AND DIAMOND MM CHECKLIST AS A GUIDE.
- CHANGED OIL, FILTER AND SERVICED WITH 7 QT'S AERO SHELL DIESEL ULTRA 5W-30.
- REPLACED FUEL FILTER.
- CUT OPEN FILTER, NO METAL NOTED.
- PERFORMED GEARBOX AND FILTER CHECK, NO METAL NOTED. SERVICED TO CORRECT LEVEL.
- COMPLIED WITH AD 16-23-03 TURBO V-BAND CLAMP INSP.
- GROUND RUN ACCOMPLISHED. NO FAULTS NOTED.
NEXT INSP DUE @ 299.4
- 4 REPLACE WATER PUMP HOUSING AND GASKET PER AUSTRO MM 85-50-00. LK CK GOOD.

I certify that this Engine has been inspected IAW 14CFR Part 43 Appendix D 100hr inspection and was determined to be in airworthy condition.

DATE: 04-05-2024

SIGNED:

Kerry Delhomme
A&P: 3473912

WORK ORDER: 01206

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01235 (05-16-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC276
REG. NO: N896PA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4-A
ENGINE SN: E4-A-06674

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

Page 1 / 1

W/O #: 01235
DATE: 05-16-2024
A/C TT: 302.3
A/C Tach: 302.3
ENG TT: 302.3

Entries

- 2 - PERFORMED 300 HR. INSPECTION USING DIAMOND AMM AS A GUIDE.
- SERVICED ENGINE WITH 7 LITERS OF AEROSHELL DIESEL ULTRA.
- NEW ENGINE OIL FILTER P/N: E4A-52-300-KIT.
- REPLACED FUEL FILTER WITH NEW P/N: WK724_3.
- REPLACED GEARBOX OIL WITH NEW SPIRAX OIL (75W-80) P/N: 550027940.
- REPLACED GEARBOX OIL FILTER WITH NEW P/N: E4A-70-000-806.
- PERFORMED ALTERNATOR BRUSH AND FUNCTIONAL CHECK IAW AUSTRO MM 24-31-00 SECTION 4.
- ENGINE RUN AND LEAK CHECK GOOD.

I certify that this Engine has been inspected IAW 14CFR Part 43 Appendix D 100hr inspection and was determined to be in airworthy condition.

DATE: 05-16-2024

SIGNED:

Landon Moore
A&P: 4916802

WORK ORDER: 01235

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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
(INSPECTION, REPAIRS, etc.)

01267 (06-26-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC276
REG. NO: N896PA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4-A
ENGINE SN: E4-A-06674

MYFLIGHT 

400 Herdon Ave
Orlando, FL 32803

W/O #: 01267
DATE: 06-26-2024
A/C TT: 396.5
A/C Tach:
ENG TT: 396.5

Entries

- C/W 100 / 200 HR ENGINE INSPECTION ON ENGINE IAW 14 CFR PART 43, APPENDIX "D" USING AUSTRO E4-08-04 MM AND DIAMOND MM CHECKLIST AS A GUIDE.
- CHANGED OIL, FILTER AND SERVICED WITH 7 QT'S AERO SHELL DIESEL ULTRA 5W-30.
- REPLACED FUEL FILTER.
- CUT OPEN FILTER, NO METAL NOTED.
- PERFORMED GEARBOX AND FILTER CHECK. NO METAL NOTED. SERVICED TO CORRECT LEVEL.
- COMPLIED WITH AD 16-23-03 TURBO V-BAND CLAMP INSP.
- GROUND RUN ACCOMPLISHED . NO FAULTS NOTED.

I certify that this Engine has been inspected IAW 14CFR Part 43 Appendix D 100hr inspection and was determined to be in airworthy condition.

DATE: 06-26-2024

SIGNED:

Matthew Hughes
A&P: 3705688

WORK ORDER: 01267

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01297 (08-15-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC276
REG. NO: N896PA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4-A
ENGINE SN: E4-A-06674

MYFLIGHT 

400 Herdon Ave
Orlando, FL 32803

W/O #: 01297
DATE: 08-15-2024
A/C TT: 492.5
A/C Tach: 492.5
ENG TT: 492.5

Entries

- C/W 100 / 200 HR ENGINE INSPECTION ON ENGINE IAW 14 CFR PART 43, APPENDIX "D" USING AUSTRO E4-08-04 MM AND DIAMOND MM CHECKLIST AS A GUIDE.
- CHANGED OIL, FILTER AND SERVICED WITH 7 QT'S AERO SHELL DIESEL ULTRA 5W-30.
- REPLACED FUEL FILTER.
- CUT OPEN FILTER, NO METAL NOTED.
- PERFORMED GEARBOX AND FILTER CHECK. NO METAL NOTED. SERVICED TO CORRECT LEVEL.
- COMPLIED WITH AD 16-23-03 TURBO V-BAND CLAMP INSP.
- GROUND RUN ACCOMPLISHED . NO FAULTS NOTED.
- REMOVED EXHAUST PIPE AND HAD CRACK WELDED I.A.W. AC 43.13-1B, REINSTALLED EXHAUST PIPE TO PERFORM ENGINE RUN.

I certify that this Engine has been inspected IAW 14CFR Part 43 Appendix D 100hr inspection and was determined to be in airworthy condition.

DATE: 08-15-2024

SIGNED:

Matthew Hughes
A&P: 3705688

WORK ORDER: 01297

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FOR

NAME/
SIGNATURELICENCE:
A&P
A&P/ACA

01322 (09-02-2024)

Page 1 / 1

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC276
REG. NO: N886PA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4-A
ENGINE SN: E4-A-06674

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

W/O #: 01322
DATE: 09-02-2024
A/C TT: 514.4
A/C Tach: 514.4
ENG TT: 514.4

Entries

1 COMPLIED WITH BORESCOPE INSPECTION MSB-E4-043/0, NO SIGN OF CRACKS ON PISTON SURFACES.

I certify that this aircraft has been inspected for the work performed above and was determined to be in airworthy condition, and returned to service.

DATE: 09-02-2024

SIGNED:

Matthew Hughes

A&P: 3705688

WORK ORDER: 01322

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01333 (09-17-2024)

Page 1 / 1

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC276
REG. NO: N886PA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4-A
ENGINE SN: E4-A-06674

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

W/O #: 01333
DATE: 09-17-2024
A/C TT: 560.2
A/C Tach: 560.2
ENG TT: 560.2

Entries

1 COMPLIED WITH BORESCOPE INSPECTION MSB-E4-043/0, NO SIGN OF CRACKS ON PISTON SURFACES.

I certify that this aircraft has been inspected for the work performed above and was determined to be in airworthy condition, and returned to service.

DATE: 09-17-2024

SIGNED:

Matthew Hughes
A&P: 3705688

WORK ORDER: 01333

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01364 (11-27-2024)

Page 1 / 1

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC276
REG. NO: N886PA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4-A
ENGINE SN: E4-A-06674

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

W/O #: 01364
DATE: 11-27-2024
A/C TT: 599.7
A/C Tach: 599.7
ENG TT: 599.7

Entries

- 1 -C/W MSB-E4-043/0 BORESCOPE INSPECTION, FOUND CRACK ON #2 CYLINDER.
- 2 -REMOVED ENGINE TO BE SENT FOR PISTON REPLACEMENT I/AW MSB-E4-039.
- REINSTALLED REPAIRED ENGINE I/AW AUSTRO INSTALLATION AND MM.

I certify that this aircraft has been inspected for the work performed above and was determined to be in airworthy condition, and returned to service.

DATE: 11-27-2024

SIGNED:

Landon Moore
A&P: 4916802

WORK ORDER: 01364

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Section 3A: Engine Service and Maintenance Log

DATE 1 / 1	TIME RUN		TIME SINCE OVERHAUL		CYCLES		DESCRIPTION OF WORK (INSPECTION, REPAIRS, REPLACEMENTS)
	HOURS	min	HOURS	min	Sub Total	TOTAL	
BROUGHT FORWARD							

01355 (11-27-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40 NC276
REG. NO: N896PA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4-A
ENGINE SN: E4-A-06674

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

WIC 8-11-19
DATE 11-27-2024
ACTY 11-27-2024
AC TACH 11-27-2024
ENG T 11-27-2024

Entries

- PERFORMED 600 HR. INSPECTION USING DIAMOND AMM AS A GUIDE.
-SERVICED ENGINE WITH 7 LITERS OF AEROSHELL DIESEL ULTRA 5W30.
-NEW ENGINE OIL FILTER P/N: E4A-52-300-KIT.
-REPLACED FUEL FILTER WITH NEW P/N: WK724_3.
-REPLACED GEARBOX OIL WITH NEW SPIRAX OIL (75W-80) P/N: 550027940.
-REPLACED GEARBOX OIL FILTER WITH NEW P/N: E4A-70-000-806.
-REPLACED TURBOCHARGER WASTEGATE ACTUATOR SPRING LOADED CIRCLIP WITH NEW P/N: E4A-41-100-801.
-PERFORMED ALTERNATOR CHECK PER DIAMOND AMM.
-REPLACED HPP WITH NEW PER AUSTRO AMM. OLD SN: , NEW SN:
ENGINE WAS GROUND RUN AND LEAK CHECKED GOOD.
- PERFORMED FLYWHEEL INSPECTION PER DIAMOND MAINTENANCE MANUAL 85-10-00
- AUXILIARY (AC) ALTERNATOR BRUSH CHECKED I.A.W. AUSTRO MAINTENANCE MANUAL CHAPTER 24.

I certify that this Engine has been inspected IAW 14CFR Part 43 Appendix D 100hr inspection and was determined to be in airworthy condition.

DATE: 11-27-2024

SIGNED:

Landon Moore
A&P: 4916802

WORK ORDER: 01355

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I CERTIFY THAT THIS (AIRCRAFT) (ENGINE) (PROP)
HAS BEEN INSPECTED IN ACCORDANCE WITH FAR AC
43-13 APP(D) (ANNUAL INSPECTION) OR (100HRS. INSP.
AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION
FOR RETURN TO SERVICE.

TACH TIME 599.7 HORBS TIME N/A

TOTAL TIME IN SERVICE 599.7

Ncw
TTTSTO 599.7 TTSTO N/A

SIGNATURE Thomas W. Bluh
INSP. AUTHORIZATION A&P 1835137 IA

DATE OF INSPECTION 11-22-2024

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TOTALS

PREVIOUS
TOTALS

TOTALS
SINCE NEW

NAME/
SIGNATURELICENCE:
AMEST
AMOTACA
 3330 AIRPORT LOOP
 SALISBURY, NC 28147
 INFO@SOUTHTTECAVIATION.COM
 OFFICE: 704-431-6862

 DATE: JUNE 11, 2025 | AUSTRO ENGINE | S/N: E4-A-06674 | REG: N896PA
 TACH: 647.8 HRS. TTE: 647.8 HRS.

AD 24-19-10 COMPLIED WITH IN ACCORDANCE WITH AUSTRO MSB-E4-043/2 PISTON
 BORESCOPE INSPECTION. PULLED INJECTOR COVER AND INJECTORS FOR ACCESS.
 PERFORMED THOROUGH INSPECTION OF PISTON CROWN NO CRACKS FOUND AT THIS TIME.
 USING KIT P/N: MSB-E4043-KIT REINSTALLED INJECTOR COVER AND INJECTORS. NEXT DUE AT
 TACH 697.8 HRS ±10 FH.
 PERFORMED SATISFACTORY ENGINE RUN. NO FAULTS OR LEAKS NOTED.

 ALL WORK PERFORMED I.A.W DA-40NG MAINTENANCE MANUAL AND AUSTRO E4 SERIES
 MAINTENANCE MANUAL.

LUKE C WALTERS

A&P 4778771

WO: WO_815

Engine - page 1 of 1



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

N896PA
TACH: 704.7

AUSTRO, E4-A, S/N: E4-A-06674

August 15, 2025

1. C/W Austro MM 5-60-00 PARA 5 Power Evaluation.
2. C/W terminating action of AD 24-19-10 I/A/W MSB-E4-039/4 ON Engine S/N E4-A-06674 Installed P/N E4A-72-300-KIT - AUSTRO PISTON KIT S/N: 00598, Installed P/N E4A-00-M01-KIT - CORE REPLACEMENT KIT, Installed P/N E4A-04-000-003 - Gasket, Exhaust, DA 62, Installed (7) P/N AER1039 - AEROSHELL OIL DIESEL ULTRA 5W30, Installed (2 L) P/N Glysantin G48 - Engine Coolant, Diamond, Installed (2) P/N TORRO_20-32_12_W1 - HOSE CLAMP, DIAMOND, Installed P/N TORRO_30-45_9_W1 - HOSE CLAMP, DIAMOND, Installed P/N DIN3017-A-10-16x7,5-W2 - Hose Clamp, Vent line, Installed (2) P/N TORRO_60-80_12_W1 - HOSE CLAMP, DIAMOND, Installed (2) P/N TORRO_12-22_9_W1 - HOSE CLAMP, DIAMOND, Installed P/N E4A-52-300-KIT - Diamond oil filter, Installed P/N E4A-00-M02-BHY - Cylinder Head System S/N: 03890.
3. C/W CA-CR test NDN.
4. C/W Austro MM 5-60-00 PARA 6 Break in procedure NDN.
5. C/W Austro MM 5-60-00 PARA 5 Power Evaluation POST maintenance 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 under work order: WO_815.

Alex Wooten A&P 5089369

Section 3A: Engine Service and

reproduced

DESCRIPTION OF WORK
(INSPECTION, REPAIRS, RE-PAINT)



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

NR06PA
HOBBS: 970.3

Austro, E4-A, S/N: E4-A-06674

TACH: 704.7

1. C/W 100 hr Inspection I/A/W Austro MM 05-20-00.
2. C/W engine oil service I/A/W Austro MM 12-10-00,a , cut open oil filter, NDN Installed P/N E4A-52-001,
DIAMOND 100HR MAINT. KIT, Installed (7) P/N AEROSHELL DIESEL ULTRA - DIESEL PISTON OIL, 1L
3. C/W coolant system service, I/A/W Austro MM 12-10-00,c.
4. C/W engine gearbox service I/A/W Austro MM 12-10-00,b. NDN. Installed (2) P/N TORRO_60-80_9_W1_1,
HOSE CLAMP, DIAMOND
5. C/W FUEL SYSTEM SERVICE I/A/W Diamond MM CH. 28-20-00 Part 4 A&B. Installed P/N W1_1
6. R&R Air filter with new. Installed P/N RU-1620 - AIR FILTER.

I certify that this ENGINE has been inspected in accordance with an (100 hour) inspection and was determined to be in airworthy condition. Details of work performed are on file with Steel Aviation under work order: WO_829.

Jeff Pleiman A/P I/A 3304319 

Jeff Pleiman A/P I/A 3304319

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PREVIOUS
TOTALS

**TOTALS
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