

AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG

Section 3A: Engine Service and Maintenance



 **Diamond**
AIRCRAFT

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

Registration:
AC Serial Number:
Engine Serial Number:
Prop Serial Number:
Airframe Total Time:

N131DA
40.NC140
E4-A-06061
210286
4.2 HRS

- D.O.T. APPROVED: _____
 Airframe: _____
 Total Time Engine Brought forward from Flight Test Journey Log (DAI - Form Q-157): 4.2 HRS
 Engine installed new on Aircraft DA 40 NG, S/N: 40.NC140
 The following STC's are incorporated:
 ○ No STC's incorporated
 Bi-weekly AWD check carried out to current revision 2021-12 all applicable AD's complied with, see attached.
 The work described above was carried out IAW the applicable Standard of Airworthiness.
 JUN 22 2021

JUN 22 2021
Date

Inspector

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N131DA
40.NC140
E4-A-06061
210286
2 HRS
2 HRS

plied with, see

Registration: N131DA
AC Serial Number: 40 NC140
ESN: E4-A-06061
Airframe TT: 52.5
Engine TSN: 52.5



LIFT MAINTENANCE

Maintenance performed:

Complied with instructions in Mandatory Service Bulletin MSB-E4-034 Revision 2
Dated September 10th 2021, by replacing drive gear with new part E4A-30-000-201
SN 2560.

Date 09/15/2021

Timothy Barker

Timothy Barker, A&P 3275916
LIFT Maintenance

2753 Cargo Drive, Indianapolis, IN 46241

NAME/
SIGNATURE

LICENCE:
AME or
AMO/ACA

ENGINE MODEL: E4-A
ENGINE S/N: E4-A-08061
REG. NO: 131DA
WORK ORDER:
9612-12-2021



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

DATE: 12/4/2021
A/C TSN: 69.3
ENG TT: 69.3
TACH: 69.3

Engine Entries

(2) REMOVED AND REPLACED LOW FUEL PRESSURE SENSOR PN: E4A-52-100-801 IAW AUSTRO.MM CHAPTER
73-20. PERFORMED ENGINE RUN AND ECU FAILURE DID NOT REAPPEAR.

DATE: 12/4/2021

SIGNED:

Matthew Hughs, A&P: 3705688

Work Order: 9612-12-2021

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Section 2A.

BROUGHT
FORWARD

ENGINE MODEL: E4-A
ENGINE S/N: E4-A-06061
REG. NO: 131DA
WORK ORDER:
9660-01-2022



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

DATE: 1/12/2022
A/C TSN: 69.3
ENG TT: 69.3
TACH: 69.3

DESCRIPTION OF WORK PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)

Engine Entries

Engine Entries

(2) C/W 100 HR INSPECTION ON THIS ENGINE IAW 14 CFR PART 43 APPENDIX-D USING AUSTRO E4.08.04 MM CH 5 INSPECTION CHECKLIST AS A GUIDE. SERVICED ENGINE WITH 7 LITERS OF AEROSHELL DIESEL ULTRA 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.

(7) C/W AD 2021-22-20 HP FUEL PUMP DRIVE GEAR. INSPECTED IAW MSB-E4-035/1. PASSED CONDITION.

(8) C/W MSB-E4-036 HP FUEL PUMP SPUR GEAR REPLACEMENT. REMOVED HP FUEL PUMP PN E4A-30-000-BHY ISS.AA.1 SN 20-06-18-02-0926. INSTALLED NEW HP FUEL PUMP PN E4A-30-000-BHY ISS.AA.2 SN 21-08-09-02-01668.

(9) REPLACED OIL RETURN LINE BANJO FITTING SEALS IAW AUSTRO E4.08.04 MM CH 73-10.

(11) REPLACED BLOCK CONNECTOR WITH NEW PN 2-967669-1 IAW AC43.13-1B CH 11.PERFORMED ENGINE RUN.OPS CHECK GOOD.

DATE: 1/12/2022

SIGNED:

SAMUEL TAVAREZ JR.
CRS# 9PRR402B

Work Order: 9660-01-2022

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ENGINE MODEL: E4-A
ENGINE S/N: E4-A-06061
REG. NO: 131DA
WORK ORDER:
9682-01-2022



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

DATE: 2/19/2022
A/C TSN: 75.9
ENG TT: 75.9
TACH: 75.9

Engine Entries

Engine Entries

(2) REPLACED FUEL PRESSURE SENSOR WITH NEW P/N AEP-00284-901 AND INSTALLED FPS REPAIR KIT P/N E4A-95-R23-000 IAW E4-08-04 MM CH 71-50. PERFORMED ENGINE RUN. OPS CHECKED GOOD.

DATE: 2/19/2022

SIGNED

Matthew Hughs, A&P: 3705688

Work Order: 9682-01-2022

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: E4-A
ENGINE S/N: E4-A-06061
REG. NO: 131DA
WORK ORDER:
10055-11-2022



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

DATE: 12/8/2022
A/C TSN: 141.7
ENG TT: 141.7
TACH: 141.7

Engine Entries

(3) C/W ANNUAL INSPECTION ON THIS ENGINE IAW 14 CFR PART 43, APPENDIX "D" USING AUSTRO E4.08.04 MM INSPECTION CHECKLIST AND DA40 NG AS A GUIDE. SERVICED ENGINE WITH 7 LITERS OF AEROSHELL DIESEL ULTRA 5W30 AND NEW ENGINE OIL FILTER P/N A-640-180-01-09. REPLACED FUEL FILTER WITH NEW P/N WK724_3. ENGINE WAS GROUND RUN AND LEAK CHECKED OK.

(23) C/W MSB-E4-039 OIL ANALYSIS AND PISTONS REPLACEMENT. GROUP 3 ENGINE S/N. SENT OUT OIL SAMPLE ONLY. DUE EACH 50 HR.

(25) ECU SOFTWARE UPDATED TO VERSION #25 IAW AE300 WIZARD.

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

DATE: 12/8/2022

SIGNED:

EMMANUEL VICIOSO
CRS 9PRR402B

Work Order: 10055-11-2022

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NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

1/6/23, 9:20 AM

Prop governor fail - N131DA Diamond DA40 Diamond Star

N131DA

Diamond DA 40 NG

SN 40.NC140

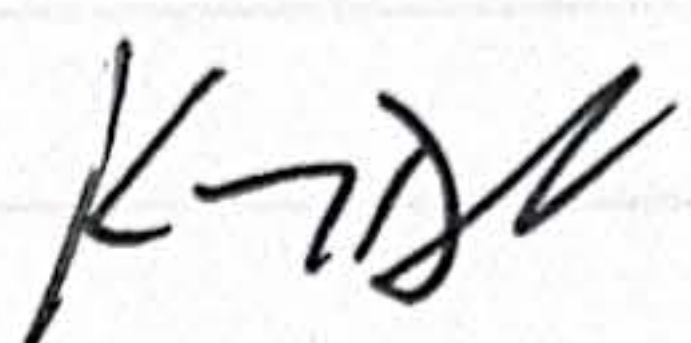
Created 01/06/2023

S/N E4-A-06061 Engine 1 Tach 173.70 TTIS 241.0

Removed and replaced Prop Governor. Ran engine and did prop self test with no faults. All work done IAW Diamond DA MM 61-20-00.

SN22G1096-KG/ PN P853-16

I certify that this engine has been inspected For the work performed and was determined to be in airworthy condition.

kerry Delhomme # 3473912 Date: 1/6/23 Signature: 

FIXED WING
AVIATION MAINTENANCE

Fixed Wing Aviation Maintenance
Lakeland Linder Regional Airport (KLAL)
3760 Airfield Drive West WWW.FIXEDWINGAVIATION.COM
Lakeland FL 33811 863-606-5757

Date: 2/01/2023; Aircraft: N131DA; Type: DA40 NG; S/N: 40.NC140; Hobbs: 331.5; Tach: 240.4; Total Time: 240.4

- Performed 100hr inspection IAW Austro E4 MM Ch 5-20 100hr checklist and FAR43 Appendix D.
- Performed 300hr check with reference to E4 MM Ch 5-20
- Performed gearbox oil and filter check, no metal noted. Installed new o-ring at gearbox filter cap.
- R&R gearbox oil and filter with new.
- Drained oil and serviced with 7L of AS Diesel Ultra. Removed and replaced oil filter, cut open oil filter for inspection. Installed cowl and performed run up.
- C/W MSB-E4-039/0 (Oil Analysis and Piston Replacement) by taking oil sample for analysis. Next oil sample is due in 50 hrs.
- I certify that this engine has been inspected in accordance with a 100hr inspection and has been determined to be in airworthy condition.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service pertaining to work performed.

Carl Dwinnell

A&P 3722251

Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RUN		TIME SINCE OVERHAUL		CYCLES	
	HOURS	min	HOURS	min	Sub Total	TOTAL

DESCRIPTION OF WORK PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)

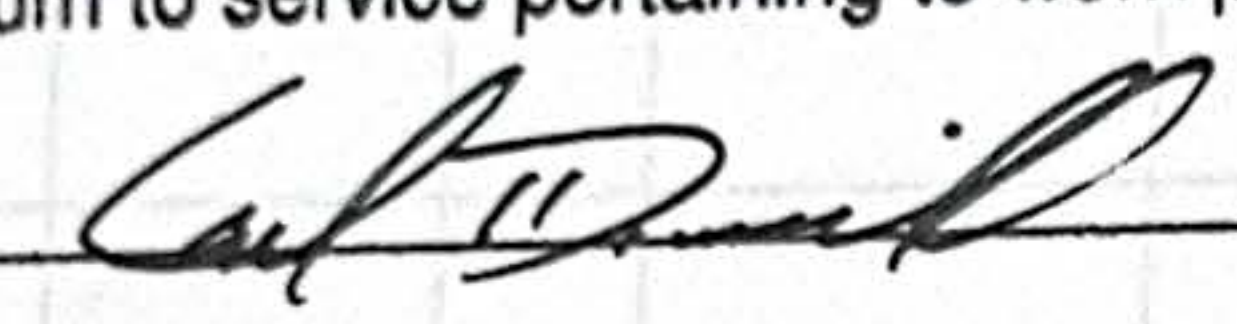
FIXED WING AVIATION MAINTENANCE

Fixed Wing Aviation Maintenance
Lakeland Linder Regional Airport (KLAL)
3760 Airfield Drive West WWW.FIXEDWINGAVIATION.COM
Lakeland FL 33811 863-606-5757

Date: 3/03/2023; Aircraft: N131DA; Type: DA40 NG; S/N: 40.NC140; Hobbs: 467.6; Tach: 344.0; Engine - Type: E4
-A, S/N: E4-A-06061, Time: 344.0

- Performed 100hr inspection IAW Austro E4 MM Ch 5-20 100hr checklist and FAR43 Appendix D.
- Complied with AD 2022-03-03 by verification of compliance with MSB-E4-036. See log entry dated 01/12/2022
- Complied with AD 2021-17-01. AD does not apply by engine S/N.
- Complied with AD 2021-24-10. AD does not apply by engine S/N.
- Drained oil and serviced with 7L of AS Diesel Ultra. Removed and replaced oil filter, cut open oil filter for inspection.
- Performed gearbox oil and filter check, no metal noted. Installed new o-ring at gearbox filter cap.
- C/W MSB-E4-039/0 (Oil Analysis and Piston Replacement) by taking oil sample for analysis. Next oil sample is due at TT: 394.0 hrs.
- Isolated fuel lines from coolant hose with RTV.
- R&R exhaust pipe assy with new P/N D44-7806-20-00_02.
- Applied heat tape to injector cover as needed.
- I certify that this engine has been inspected in accordance with a 100hr inspection and has been determined to be in airworthy condition.

The above work was performed in accordance with current regulations of the Federal Aviation Administration and is approved for return to service pertaining to work performed.

Carl Dwinnell  A&P 3722251

3/27/23, 7:53 AM

LB136

KD
694.8

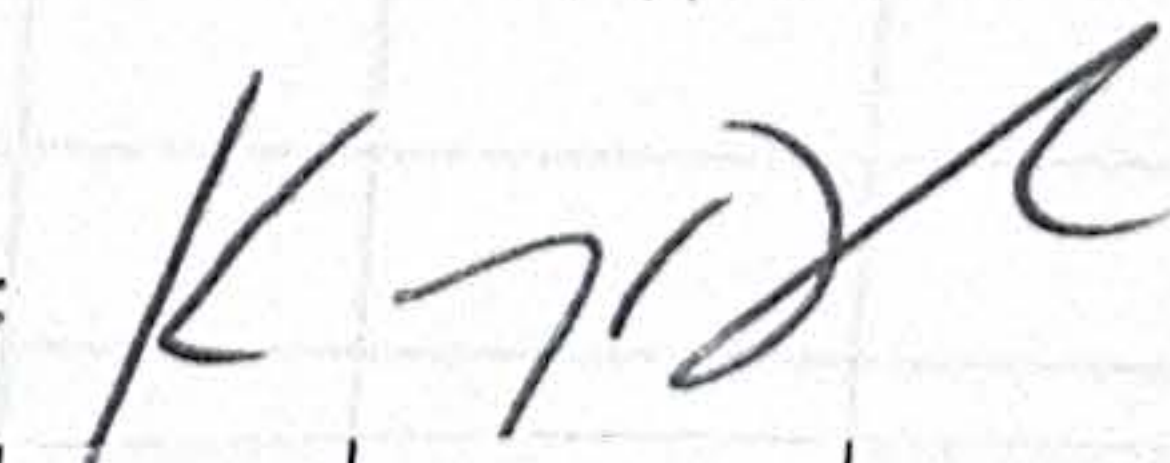
DATE: 03/26/23 REG: N131DA ENGINE SN E4-A-06061

Diamond DA40 Diamond Star S/N .40.NC052 Engine Tach 444.4 HOBBS 594.8

NEXT DUE 1052.8

- ALL ADs checked through current. Return to Service.
- C/W 100 Hr Inspection on the engine IAW 14 CFR Part 43, Appendix "D" using Austro E4-08-04 MM Inspection Checklist as a guide
- Changed oil and served with 7 QTS of Aeroshell Diesel 5W30 Oil.
- Replaced fuel filter with new WK724-3.
- cut oil filter ,no metal noted.
- Performed gearbox oil and filter check . No metal noted.
- Ground run accomplished / No faults.

I certify that this aircraft has been inspected IAW 14 CFR Part 43, Appendix "D" using Austro E4-08-04 MM Inspection Checklist as a guide. and has been determined to be in airworthy condition.

kerry Delhomme # Date: 3/27/23 Signature: 

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NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

Created 04/04/2023 N131DA Engine 1 Tach 444.4

Removed and replaced V ribbed bely due to cracking . Work done IAW Austro Maintenance Manual 85-00-00.
Ran engine for ops check , no defect noted.

I certify that this engine has been inspected for the work performed above was determined to be in airworthy condition.

Kerry Delhomme # 3473912 Date: 4/9/23 Signature:

K71D

Date: 5-2-23

N131DA Diamond DA40 Diamond Star

Eng. S/N: E4-A-06061 TACH: 542.3 HOBBS 727.4 Next Due: 642.3

Engine Entry:

- ALL ADs checked through current. Return to Service.
- C/W 600 Hr Inspection on the engine IAW 14 CFR Part 43, Appendix "D" using Austro E4-08-04 MM Inspection Checklist as a guide
- Changed oil and filter, served with 7 QTS of Aero shell Diesel 5W30 Oil.
- Replaced fuel filter with new WK724-3.
- Cut oil filter ,no metal noted.
- Performed gearbox oil and filter check. Replaced oil and filter with new. No metal noted.
- Ground run accomplished / No faults.
- Replaced coolant as required.
- Replaced flywheel with serviceable flywheel with 600 HRS . S/N 03766
- Complied with 600hr high pressure fuel pump replacement.
- Complied with AD16-23-03 turbo V band clamp inspection IAW MSB 40NG-046/2. No defects noted
- Complied with alternator brush check. Check good

I certify that this Engine has been inspected IAW 14 CFR Part 43, Appendix "D" using Austro E4-08-04 MM Inspection Checklist as a guide, and has been determined to be in airworthy condition.

Kerry Delhomme # 3473912 Date: 5/2/23 Signature:

K71D

Section 3A: Engine Service and Maintenance Log

DATE	TIME RUN		TIME SINCE OVERHAUL		CYCLES	
	HOURS	min	HOURS	min	Sub Total	TOTAL
1 / 1						

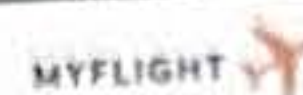
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DESCRIPTION OF WORK PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)

Page 1 / 1

01022 (09-20-2023)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC140
REG. NO.: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061



400 Herdon Ave
Orlando, FL 32803

W/O #: 01022
DATE: 09-20-2023
A/C TT: 604.4
A/C Tach: 604.4
ENG TT: ~~604.4~~ 604.4

Entries

- 1 - REMOVE AND REPLACED GEARBOX, GEARBOX REMOVED (S/N 01022) AND FLYWHEEL ASSY REMOVED (S/N 03766). GEARBOX INSTALLED (S/N 5704) AND FLYWHEEL ASSY INSTALLED (S/N 07387). WITH NEW FROM DIAMOND PER AUSTRO MM 85-10-00. SERVICED GEARBOX TO CORRECT LEVEL, LK AND OPS CK. GOOD.
- NEXT INSP ON FLYWHEEL DUE @ 1204.4

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: 09-20-2023

SIGNED:

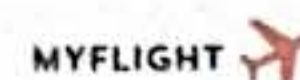
Matthew Hughes
A&P: 3705688

WORK ORDER: 01022

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01065 (09-20-2023)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC140
REG. NO.: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061



400 Herdon Ave
Orlando, FL 32803

W/O #: 01065
DATE: 09-20-2023
A/C TT: 604.4
A/C Tach: 604.4
ENG TT: ~~604.4~~ 604.4

Entries

- 1 COMPLIED WITH MSB-E4-039/0 50 HR OIL SAMPE.

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: 09-20-2023

SIGNED:

Kerry Delhomme
A&P: 3473912

WORK ORDER: 01065

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01075 (10-12-2023)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC140
REG. NO.: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061



400 Herdon Ave
Orlando, FL 32803

W/O #: 01075
DATE: 10-12-2023
A/C TT:
A/C Tach: 630.7
ENG TT: 630.7

Entries

- 2 - C/W 100 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 5-30.
- 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 Airframe has been inspected IAW 14CFR Part 43 Appendix D 100hr inspection and was determined to be in airworthy condition.

DATE: 10-12-2023

SIGNED:

Kerry Delhomme
A&P: 3473912

WORK ORDER: 01075

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01103 (11-07-2023)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC140
REG. NO.: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

Entries

- 1 C/W 50 HR MSB-E4-09 OIL

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: 11-07-2023

01114 (12-01-2023)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC140
REG. NO.: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

Entries

- 1 C/W MSB 50 HR

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: 12-01-2023

THI
TC

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TC

TO
SINC

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NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

01103 (11-07-2023)

Page 1 / 1

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA40NG
S/N: 40.NC140
REG. NO.: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT 

400 Herdon Ave
Orlando, FL 32803

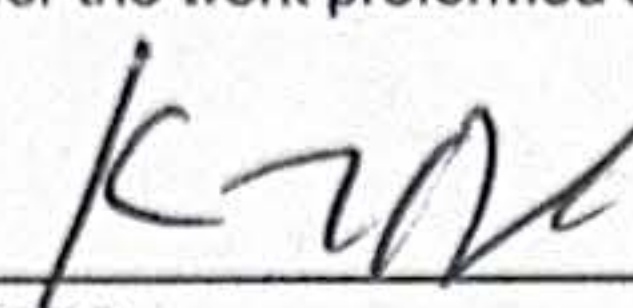
W/O #: 01103
DATE: 11-07-2023
A/C TT:
A/C Tach:
ENG TT: 671.4

Entries

1 C/W 50 HR MSB-E4-09 OIL SMPLE PER DIAMOND.

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: 11-07-2023

SIGNED: 

Kerry Delhomme
A&P: 3473912

WORK ORDER: 01103

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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 725.3 HOBBS TIME N/ATOTAL TIME IN SERVICE 725.3TTSMO N/A TTSTO N/A

SIGNATURE Thomas W. Blunk
INSP. AUTHORIZATION A&P 1885137 IA

DATE OF INSPECTION 12/08/2023

01114 (12-01-2023)

Page 1 / 1

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA40NG
S/N: 40.NC140
REG. NO.: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT 

400 Herdon Ave
Orlando, FL 32803

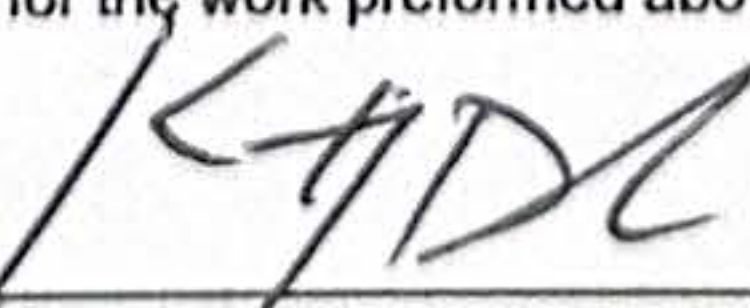
W/O #: 01114
DATE: 12-01-2023
A/C TT:
A/C Tach:
ENG TT: 723.0

Entries

1 C/W MSB 50 HR OIL SAMPLE.

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: 12-01-2023

SIGNED: 

Kerry Delhomme
A&P: 3473912

WORK ORDER: 01114

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Section 3A: Engine Service and Maintenance

DATE / /	TIME RUN		TIME SINCE OVERHAUL		CYCLES	
	HOURS	min	HOURS	min	Sub Total	TOTAL

DESCRIPTION OF WORK PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)

BROUGHT
FORWARD

Page 1 / 1

01118 (12-08-2023)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA40NG
S/N: 40.NC140
REG. NO.: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT

400 Herdon Ave
Orlando, FL 32803

W/O #: 01118
DATE: 12-08-2023
A/C TT: 725.3
A/C Tach: 725.3
ENG TT: 725.3

Entries

- 2 - C/W 100 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.
- 7 REMOVED AND REPLACED CHARGE AIR HOSE IAW DIAMOND MM

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: 12-08-2023

SIGNED:

Matthew Hughes
A&P: 3705688

WORK ORDER: 01118

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01148 (01-25-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA40NG
S/N: 40.NC140
REG. NO.: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT

400 Herdon Ave
Orlando, FL 32803

Page 1 / 1

W/O #: 01148
DATE: 01-25-2024
A/C TT: 773.1
A/C Tach: 773.1
ENG TT: 773.1

Entries

- 1 C/W MSB-E4-039 50 HR OIL SAMPLE

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: 01-25-2024

SIGNED:

Matthew Hughes
A&P: 3705688

WORK ORDER: 01148

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TOTALS

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TOTALS
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CARRY FORWARD to Top of Next Page

01181 (04-28)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA40NG
S/N: 40.NC140
REG. NO.: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

Entries

- 2 - C/W 100 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.
- 4 INSTALLED CHARGE AIR HOSE IAW DIAMOND MM
- 5 REMOVED AND REPLACED CHARGE AIR HOSE IAW DIAMOND MM
- 6 REMOVED AND REPLACED CHARGE AIR HOSE IAW DIAMOND MM
- 9 REPLACED FUEL FILTER
- 10 REMOVED AND REPLACED CHARGE AIR HOSE IAW DIAMOND MM
- 11 REPLACED FUEL FILTER
- 12 REPLACED FUEL FILTER
- 13 COMPLETED

01181 (04-28)

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: 04-28-2023

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

01181 (04-26-2024)

Page 1 / 2

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC140
REG. NO: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

W/O #: 01181
DATE: 04-26-2024
A/C TT: 825.6
A/C Tach: 825.6
ENG TT: 825.6

Entries 300

- 2 - C/W 600HR 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. REPLACED FILTER AND SERVICED OIL TO CORRECT LEVEL.
 - COMPLIED WITH AD 16-23-03 TURBO V-BAND CLAMP INSP.
 - GROUND RUN ACCOMPLISHED. NO FAULTS NOTED.
- 4 INSTALLED NEW INJECTORS PER 900 HR INSP. AND AUSTRO MM 73-10-00. LK AND OPS CK GOOD.
IQA CODES
#1 8PHGKN #3 78HF75
#2 6YP82A #4 8ZZR5E
- 5 REMOVED AND REPLACED LEAKING TURBO WITH NEW PER AUSTRO MM 81-20-00. LK AND OPS CK GOOD.
- 6 REMOVED CYLINDER HEAD FACE PLATE, RE-SEALED AND INSTALLED PER AUSTRO MM 85-30-00. LK AND OPS CK GOOD.
- 9 REPLACED CYLINDER HEAD DRAIN LINE WITH NEW FROM DIAMOND. LK CK GOOD.
- 10 REMOVED ENGINE, PACKAGED AND SHIPPED TO AEROTEC FOR PISTON PIN REPLACEMENT TO COMPLY WITH MSB-E4-039. DONE IAW AUSTRO MM.
 - ENGINE PISTON PIN REPLACEMENT C/W BY AEROTEC ENGINES LTD.
 - RE-INSTALLED ENGINE PER AUSTRO/DIAMOND MM, BRAKE IN PROCEDURE AND POWER EVALUATION C/W PER AUSTRO WORK INSTRUCTION WI-MSB-E4-039-I. OPS CK GOOD NO LEAKS NOTED.
- 11 REPLACED WORN MAIN ALTERNATOR WITH NEW PER DIAMOND MM.
- 12 REPLACED WORN RAAC ALTERNATOR BRUSHED PER DIAMOND MM. OPS CK GOOD.
- 13 COMPLIED WITH STARTER MSB 40NG-080 REV. 2 PER DIAMOND WORK INSTRUCTIONS. OPS CK GOOD.

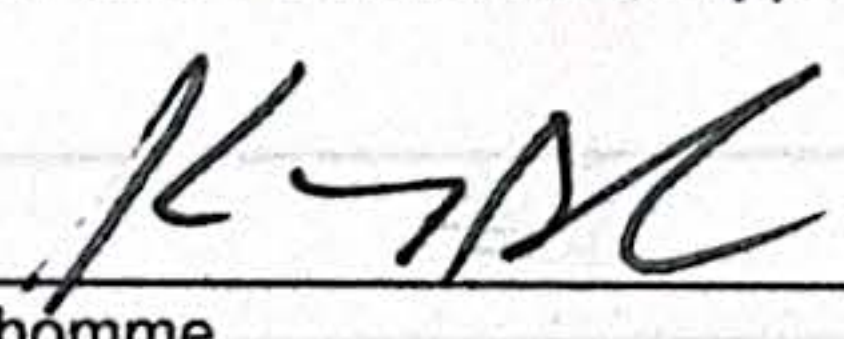
01181 (04-26-2024)

Page 2 / 2

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: 04-26-2024

SIGNED:


Kerry Delhomme
A&P: 3473912

WORK ORDER: 01181

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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 →							

01252 (06-13-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC140
REG. NO: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

Page 1 / 1

W/O #: 01252
DATE: 06-13-2024
A/C TT: 936.3
A/C Tach: 936.3
ENG TT: 936.3

Entries

- 2 -C/W 100HR ENGINE INSPECTION I/A/W 14 CFR PART 43, APPENDIX "D" USING AUSTRO AND DIAMOND MM AS A GUIDE.
-SERVICED ENGINE WITH 7 LITERS AEROSHELL DIESEL ULTRA.
-REPLACED OIL FILTER WITH NEW, P/N E4A-52-300-KIT.
-REPLACED GEARBOX OIL WITH NEW SPIRAX OIL (75W-80), P/N 550027940.
-REPLACED FUEL FILTER WITH NEW, P/N WK724_3.
-REMOVED AND REPLACED INTAKE AIR FILTER WITH NEW, P/N RU-1620.
-NO METAL NOTED IN GEARBOX OIL DRAIN PLUG AND FILTER.
-NO METAL NOTED IN OIL FILTER.
-COMPLIED WITH AD 16-23-03 TURBO V-BAND CLAMP INSPECTION.
-GROUND RUN AND LEAK CHECK GOOD. NO DISCREPANCIES NOTED.
- 4 -REMOVED AND REPLACED OIL FILTER RETURN LINE BONJO BOLT SEALING RINGS WITH NEW, P/N DIN7603-A12, I/A/W AUSTRO MM 79-20-40.

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: 06-13-2024

SIGNED:

Landon Moore
A&P: 4916802

WORK ORDER: 01252

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01289 (08-08-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC140
REG. NO: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

Page 1 / 1

W/O #: 01289
DATE: 08-08-2024
A/C TT: 1028.8
A/C Tach:
ENG TT: 1028.8

Entries

- 2 -PERFORMED 100HR ENGINE INSPECTION I/A/W DIAMOND AND AUSTRO MM.
-SERVICED ENGINE WITH 7L OF AEROSHELL DIESEL ULTRA.
-REMOVED AND REPLACED OIL FILTER WITH NEW, P/N: HU 615/3x.
-CUT OPEN OIL FILTER, NO METAL NOTED.
-GEARBOX OIL, FILTER, AND DRAINPLUG CHECK GOOD, NO METAL NOTED, SERVICED TO CORRECT LEVEL.
-REPLACED GEARBOX SEALING O-RINGS WITH NEW.
-REMOVED AND REPLACED FUEL FILTER WITH NEW, P/N: WK724_3.
-COMPLIED WITH AD 16-23-03 TURBO V-BAND CLAMP INSP.
-LEAK CHECK AND OPS CHECK GOOD, NO DISCREPANCIES NOTED.
- 7 -REMOVED AND SENT CRACKED EXHAUST PIPE TO OUTSIDE VENDOR FOR REPAIR. REINSTALLED I/A/W DIAMOND MM 78-00-20.
-OPS CHECK GOOD, NO DISCREPANCIES 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: 08-08-2024

SIGNED:

Landon Moore
A&P: 4916802

WORK ORDER: 01289

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CARRY FORWARD to Top of Next Page

NAME/
SIGNATURELICENCE:
AME or
AMO/ACA

01339 (09-19-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC140
REG. NO: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

Page 1 / 1

W/O #: 01339
DATE: 09-19-2024
A/C TT: 1060.4
A/C Tach: 1060.4
ENG TT: 1060.4

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: 09-19-2024

SIGNED:

Matthew Hughes
A&P: 3705688

WORK ORDER: 01339

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01377 (10-17-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC140
REG. NO: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

Page 1 / 1

W/O #: 01377
DATE: 10-17-2024
A/C TT: 1116.8
A/C Tach: 1116.8
ENG TT: 1116.8

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: 10-17-2024

SIGNED:

Matthew Hughes
A&P: 3705688

WORK ORDER: 01377

Printed by EBIS (EBISCloud.com)

01398 (11-05-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC140
REG. NO: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

Page 1 / 1

W/O #: 01398
DATE: 11-05-2024
A/C TT: 1130.2
A/C Tach: 1130.2
ENG TT: 1130.2

Entries

1 -C/W MSB-E4-043/0, BORESCOPE INSPECTION 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: 11-05-2024

SIGNED:

Landon Moore
A&P: 4916802

WORK ORDER: 01398

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01433 (12-04-2024)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC140
REG. NO: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

Page 1 / 1

W/O #: 01433
DATE: 12-04-2024
A/C TT: 1176.7
A/C Tach: 1176.7
ENG TT: 1176.7

LICENCE:
AME or
AMO/ACA

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: 12-04-2024

SIGNED:

Matthew Hughes
A&P: 3705688

WORK ORDER: 01433

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01459 (01-02-2025)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC140
REG. NO: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

Page 1 / 1

W/O #: 01459
DATE: 01-02-2025
A/C TT: 1196.6
A/C Tach: 1196.6
ENG TT: 1196.6

Entries

- 1 COMPLIED WITH MSB-E4-043/0 BORESCOPE INSPECTION, 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: 01-02-2025

SIGNED:

Matthew Hughes
A&P: 3705688

WORK ORDER: 01459

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01458 (01-02-2025)

MAKE: DIAMOND AIRCRAFT
INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC140
REG. NO: N131DA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-06061

MYFLIGHT



400 Herdon Ave
Orlando, FL 32803

Page 1 / 1

W/O #: 01458
DATE: 01-02-2025
A/C TT: 1196.6
A/C Tach: 1196.6
ENG TT: 1196.6

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.
- 12 PERFORMED TIMING CHAIN INSPECTION IAW AUSTRO MM CHAPTER 85.

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: 01-02-2025

SIGNED:

Matthew Hughes
A&P: 3705688

WORK ORDER: 01458

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Section 3A: Engine Service and Maintenance Log

Section 5A

DATE

1 / 1

TIME RUN

HOURS min

TIME SINCE OVERHAUL

HOURS min

CYCLES

Sub Total

TOTAL

DESCRIPTION OF WORK PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)

BROUGHT FORWARD

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 1196.6 HOBBS TIME N/A

TOTAL TIME IN SERVICE 1196.6 TTOE 1196.6

NEW TTSO 1196.6 TTSO N/A

SIGNATURE Thomas W. Blum

INSP. AUTHORIZATION A&P 1885137 IA

DATE OF INSPECTION 01-03-2025

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