AIRCRAFT
TECHNICAL RECORD

Section 3. ENGINE LOG

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R4.0C

ENGINE LOG

Austro Engines GmbH

E4-A

E00081EN

E4-A-00688

24 OCT 2019

1. Approving Competent Authority / Country
Austro Control GmbH
Austria

2.

AUTHORISED RELEASE CERTIFICATE
EASA FORM 1

3. Form Tracking Number
AE030108

4. Organisation Name and Address
Austro Engine GmbH
Rudolf Diesel Straße 11
2700 Wr. Neustadt, AUSTRIA

5. Work Order / Contract / Invoice
ES193032

6. Item	7. Descritption	8. Part No.	9. Quantity	10. Serial No.	11. Status / Work
1	E4 Configuration A	E4-A-00-000-000 Iss. 011	1	E4-A-00688	New

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 10; Damper assy P/N: D44-7306-30-00_1 (EASA Form1: AJ50054)
Item 1	Fuel hose assy P/N: A24119-01 (EASA Form1: 222011). Cleaned and installed acc. AE APA_Pulsationsdämpfer-Aufbau_190618.

13a. Certifies that the items identified above were manufactured in comformity to:

- [X] approved design data and are in condition for safe operation
- [ ] non-approved design data specified in block 12

14a. [ ] Part-145.A.50 Release to Service [ ] 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 relese to service.

13b. Authorised Signature	13c. Approval /Authorisation Number	14b. Authorised Signature	14c. Certificate / Approva Reference Number
	AT.21G.0010		
13d. Name	**13e. Date (dd mmm yyyy)**	**14d. Name**	**14e. Date (dd mmm yyyy)**
Austro Engine O. Bauer Certi. Staff AT.21G.0010	24 OCT 2019		

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

Freigabe: 01.Sept. 2019 / C. Prinstinger

FOQ05_Form1_rev1

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ENGINE LOG

1. Make: Austro Engines GmbH

2. Model: E4-A

3. Specification: E00081EN

4. Manufacturer's Serial Number: E4-A-00688

5. Date of Manufacture: 24 OCT 2019

6. Aircraft Inspection Cycle:

Section 3A: Engine Service and Maintenance Log

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

Registration:	N387LA
AC Serial Number:	40.NC087
Engine Serial Number:	E4-A-00688
Prop Serial Number:	190966
Airframe Total Time:	3.5 HRS

- Total Time Engine Brought forward from Flight Test Journey Log (DAI - Form Q-157): 3.5 HRS
- Engine installed new on Aircraft DA 40 NG, S/N: 40.NC087
- The following STC's are incorporated:
  - No STC's incorporated
- **Bi-weekly AWD check carried out to current revision 2020-01 all applicable AD's complied with, see attached.**
- The work described above was carried out IAW the applicable Standard of Airworthiness.

DA QA

Inspector

JAN 2 2 2020

date

(Intentionally left blank below this point)

SoCal Aircraft Maintenance 4015 Santa Anita Ave. El Monte CA, 91731	N387LA	DATE: 7/22/2020
		TACH: 72.7

Engine serviced with service kit P/N E4A-52-000-KIT. Clean induction air filter. Engine oil serviced with 7litres of Shell Ultra Diesel. Removed/ replace and inspect engine oil filter. Gearbox serviced with Shell Spirax S6 75W-80. Gearbox oil filter and magnetic drain plug inspected and reinstalled. Follow 05-20-00 in Austro MM scheduled maintenance checks. Run-up and leak check good.

Alexander Hansen
A&P# A&P3847469

N387LA	DATE: 12/11/2020
ETT: 138.7 AFTT: 138.7 PTT: 138.7	TACH: 138.7

Remove and replace fuel filter and check gascolator filter. Check gearbox oil, check air filter, inspected cooling system, fuel system, oil system, FADEC sensors, exhaust system, V-ribbed belt, turbocharger, engine mounts, fuel pumps and cleaned engine. I certify this **Engine** has been inspected in accordance with an **Annual** inspection and was determined to be in an airworthy condition.

Alexander Hansen
A&P3847469 IA

SoCal Aircraft Maintenance 4015 Santa Anita Ave. El Monte CA, 91731	N387LA	DATE:06/14/2021
	ETT: 228.3 ACTT: 228.3	TACH: 228.3

Engine Serviced with service kit P/N: E4A-52-000-KIT. Cleaned induction air filter. Engine oil serviced with 7 liters of Shell Ultra Diesel. Removed/replaced oil filter. Inspected oil filter for contamination. Leak check good. AD run completed through bi-weekly 2021-12. All ADs complied with. Engine inspected in accordance with a 100 hour inspection and found to be in an airworthy condition.

Questle Davis
A&P# 2764594

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PREVIOUS TOTALS						
TOTALS SINCE NEW						

CARRY FORWARD to Top of Next Page

Hansen Maintenance 4001 Santa Anita, El Monte, CA 707-254-5545 Flying561@gmail.com	N387LA	DATE: 6/14/2021
	DA 40 NG SN 40.NC087 TT: 228.3 Austro E4-A SN E4-A-00688 MT MTV-6-R/190-69 Hub SN: 190966	TACH: 228.3

A1

Inspected engine in accordance with 14 CFR Part 43 Appendix D. Checked airworthiness directives through biweekly period 2021-12. I certify that this **engine** has been inspected in accordance with and an **Annual** Inspection and has been determined to be in airworthy condition.

LICENCE:
AME or
AMO/ACA

Alexander Hansen
A&P3847469 IA

SoCal Aircraft Maintenance 4015 Santa Anita Ave. El Monte CA, 91731	N387LA	DATE:06/24/2021
	ETT: 236.4 Hobbs: 306.3	TACH: 236.4

Engine Gearbox Inspected and Serviced In Accordance With Diamond DA40 AMM.

Questle Davis
A&P# 2764594

SoCal Aircraft Maintenance 4015 Santa Anita Ave. El Monte CA, 91731 1 (626) 522-5101	N387LA	11/10/2021
	TACH: 327.3 HOBBS: 423.3	

Engine serviced with kit P/N: E4A-00-301-KIT. Drained and screened contents of gearbox and engine crankcase. No contamination noted. Inspected and replaced oil filter. Replaced fuel filter. Took engine oil and gearbox oil sample for analysis. Gearbox serviced with Spirax S6 75W-80. Engine serviced with Shell Ultra Diesel. Performed ground run. No leaks detected.

William Stickney
A&P3976676IA

ENGINE MODEL: E4A
ENGINE S/N: E4-A-00688
REG. NO: N387LA
WORK ORDER: 4151

Aero City Maintenance
2901 East Spring St. Suite A
Long Beach, CA 90806
Phone: 562-912-4263

DATE: 2/18/2022
A/C TSN: 352.7
ENG TT: 352.7
TSMOH:
TACH: 352.7

Engine Entries

Complied with AD 2016-23-03 turbo v-clamp inspection paragraph (f) using WI-MSB 40NG-046 Section III as a guide, no discrepancies were noted at this time. Next inspection due @TACH:452.7... Performed software update on ECU using AE300 Wizard Guide Section 10 as a guide. Operation Check good.... Replaced turbo wastegate actuator PN: E4A-41-120-000 and spring circlip PN: E4A-41-120-000 due to internal failure using Austro E4 Series R30 MM chapter 81 as a guide. Operation/leak check good. Spring Circlip next due @TACH:952.7

Technicians Who Worked On The Items Listed Above:
Andres Almazan-Uriostegui

DATE: 2/18/2022 SIGNED:

Andres Almazan-Uriostegui, A&P: A&P 4257382

Work Order: 4151

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ENGINE MODEL: E4A
ENGINE S/N: E4-A-00688
REG. NO: N387LA
WORK ORDER: 4234

Aero City Maintenance
2901 East Spring St. Suite A
Long Beach, CA 90806
Phone: 562-912-4263

DATE: 5/10/2022
A/C TSN: 384.8
ENG TT: 384.8
TSMOH:
TACH: 384.8

Engine Entries

Complied with 100Hr/Annual inspection using Diamond Aircraft DA40NG AMM chapter 5 and FAR part 43 Appendix D checklist as a guide. Engine oil has been drained, old oil filter removed and inspected with no defects noted. Engine serviced with Shell Diesel ultra oil using 100Hr kit p/n E4A-52-000-KIT.... All applicable airworthiness Directives have been researched through bi-weekly issue 2022-09... Serviced engine induction air filter as required with no defects noted at this time.... Complied with AD 2016-23-03 turbo v-clamp inspection paragraph (f)(1) using WI-MSB 40NG-046 Section III.1 as a guide, no discrepancies were noted at this time. Next inspection due @TACH: 484.8... Performed 300 hour inspection/servicing using Austro AE300 E4 MM Ch.5 as a guide. Next due at Tach: 684.8. Operation/leak check good.... Replaced engine turbo oil feed and drain gaskets as required due to oil leaks using Austro AE300 E4 MM Ch.79 as a guide. Operation/leak check good.... Replaced engine cooling system hose clamps as required due to coolant leaks using Diamond DA40-NG AMM Ch.75 as a guide. Pressure leak test good, operation/leak check good.

Technicians Who Worked On The Items Listed Above:
Andres Guzman, Jon Shea, Michael Moreno, Richard Formica

I certify that this Aircraft has been inspected in accordance with Annual inspection checklist and was determined to be in airworthy condition.

DATE: 5/10/2022 SIGNED:

Richard Formica, License: A&P 3702089 IA

Work Order: 4234

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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

ENGINE MODEL: E4A
ENGINE S/N: E4-A-00688
REG. NO: N387LA
WORK ORDER: 4301

Aero City Maintenance
2901 East Spring St. Suite A
Long Beach, CA 90806
Phone: 562-912-4263

DATE: 9/8/2022
A/C TSN: 446.7
ENG TT: 446.7
TSMOH:
TACH: 446.7

Engine Entries

Replaced aft cylinder head drain banjo fitting seals due to an excessive oil leak, using Austro E4 Series Engines Ch.85-30 as a guide. Operation/leak check good.

Technicians Who Worked On The Items Listed Above:
Andres Almazan-Uriostegui

DATE: 9/8/2022 SIGNED: Richard Formica, License: A&P 3702089 IA

Work Order: 4301

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ENGINE MODEL: E4A
ENGINE S/N: E4-A-00688
REG. NO: N387LA
WORK ORDER: 4362

Aero City Maintenance
2901 East Spring St. Suite A
Long Beach, CA 90806
Phone: 562-912-4263

DATE: 12/13/2022
A/C TSN: 484.6
ENG TT: 484.6
TSMOH:
TACH: 484.6

Engine Entries

Drained engine oil & inspected old filter open, no metal found. Filled engine with 7qts Aeroshell utra diesel oil and installed new oil filter PN: E4A-52-000-KIT1. Operation/leak check good

Technicians Who Worked On The Items Listed Above:
Andres Guzman

DATE: 12/13/2022 SIGNED: Andres Guzman, A&P: A&P 4420942

Work Order: 4362

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ENGINE MODEL: E4A
ENGINE S/N: E4-A-00688
REG. NO: N387LA
WORK ORDER: 4409

Aero City Maintenance
2901 East Spring St. Suite A
Long Beach, CA 90806
Phone: 562-912-4263

DATE: 3/30/2023
A/C TSN: 508.8
ENG TT: 508.8
TSMOH:
TACH: 508.8

Engine Entries

-Removed and cut open engine oil filter and installed new one for a pre-buy check using Austro E4.08.04 R31 AMM as a guide
Updated Engine ECU software to latest revision E4FCT_00_VC33_1_07_25 as required, using AE300 Wizard Guide Section 10 as a guide. Operation check good.
MSB-E4-039 does not apply to engine serial number. No further action required at this time.

Technicians Who Worked On The Items Listed Above:
Andres Almazan-Uriostegui, Richard Formica

DATE: 3/30/2023 SIGNED: Richard Formica, License: A&P 3702089 IA

Work Order: 4409

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NAME/ SIGNATURE	LICENCE: AME or AMO/ACA

MYFLIGHT

N387LA Diamond DA40 Diamond Star
Eng. S/N: E4-A-00688 Hobbs: 695.1 TACH: 533.9 Next Due: 633.9

Engine Entry:
- 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 filter, served with 7 QTS of Aero shell Diesel 5W30 Oil.
- Replaced fuel filter with new WK724-3.
- Cut oil filter, no metal noted.
- Complied with 300 hr gearbox oil and filter check .Replaced oil and filter with new. No metal noted.
- Ground run accomplished / No faults.
- Replaced coolant as required per 600 HR
- Replaced flywheel with new.
- Complied with 600hr high pressure fuel pump time limit replacement. SN 22-02-15-02-00239
- Complied with AD16-23-03 turbo V band clamp inspection IAW MSB 40NG-046/2. No defects noted
- Replaced FWD RH. engine mount. PN D64-7126-14-71-01
- Replaced air filter with new .
- Complied with oil and gearbox sample.
- Complied with waste gate circlip replacement.

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: 4/11/23 Signature: KDL

MYFLIGHT

Date: 04-20-23
N387LA Diamond DA40 Diamond Star
Eng. S/N: E4-A00688 TACH: ~~700.0~~ 630 Hobbs: 560.5

Engine Entry:

Removed and replaced Waste gate actuator due to boost over pressure fault.
Tested pressure and ran engine. Ops check good. Work done IAW Austro MM 81-20-00.

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

Kerry Delhomme # 3473912 Date: 4/21/23 Signature: KDL

Section 3A: Engine Service and Maintenance Log

DATE	TIME RUN		TIME SINCE OVERHAUL		CYCLES		DESCRIPTION OF WORK PERFORMED (INSPECTION, REPAIRS, REPLACEMENT)	NAME/ SIGNATURE	LICENCE: AME or AMO/ACA
	HOURS	min	HOURS	min	Sub Total	TOTAL			
BROUGHT FORWARD									
							I CERTIFY THAT THIS (AIRCRAFT) (ENGINE) (PROP) HAS BEEN INSPECTED IN ACCORDANCE WITH FAR AC 43-13 APP(D) (ANNUAL INSP.) OR (100HRS. INSP) AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION FOR RETURN TO SERVICE. TACH TIME 643.5 HOBBS TIME N/A TOTAL TIME IN SERVICE 643.5 TTSMO N/A TTSTO N/A SIGNATURE Thomas W Blanton INSP. AUTHORIZATION A&P 1885137 IA DATE OF INSPECTION 06/03/2023		
							C/W 100 hr insp. - N387LA Diamond DA40 Diamond Star		
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TOTALS SINCE NEW									

6/9/23, 10:50 AM

MYFLIGHT

Date:6-3-23
N387LA Diamond DA40 Diamond Star
Eng. S/N: E4-A-00688 TACH: 643.5 TTE: 643.5 TSMOH: 643.5 Next Due: 733.9

Engine Entry:
- 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 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 . No metal noted. Serviced gearbox to correct level.
- Ground run accomplished / No faults.
- Complied with AD16-23-03 turbo V band clamp inspection IAW MSB 40NG-046/2. Replaced V-Band clamp.

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: **6/3/23** Signature: K Del

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01025 (07-19-2023) MYFLIGHT 400 Herdon Ave Orlando , FL 32803
MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC087
REG. NO:: N387LA

Page 1 / 1
W/O #: 01025
DATE: 07-19-2023

Entries
1 ADJUSTED WASTE GATE ACTUATOR PER DIAMOND MM 61-00-00. C/W ENGINE RUN AND NO DEFECTS NOTED

I certify that this aircraft has been inspected for the work preformed above and was determined to be in airworthy condition, and returned to service.
DATE: 07-19-2023 SIGNED: Matthew Hughes A&P: 3705658

WORK ORDER: 01025
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01050 (08-24-2023) MYFLIGHT 400 Herdon Ave Orlando , FL 32803
MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC087
REG. NO:: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE S/N: E4-A-00688

Page 1 / 1
W/O #: 01050
DATE: 08-24-2023
A/C TT: 743.0
A/C Tach: 743.0
ENG TT: 743.0

Entries
2 - PERFORMED 100 HR. ENGINE INSPECTION IAW 14 CFR PART 43,APPENDIX "D" USING AUSTRO E4-08-04 MM INSPECTION CHECKLIST AS A GUIDE.
- CHANGED OIL AND FILTER, SERVICED WITH 7 QTS OFAEROSHELL DIESEL 5-30.
- REPLACED FUEL FILTER .
- PERFORMED GEARBOX OIL AND FILTER CHECK. NO METAL NOTED .SEVICED TO CORRECT LEVEL.
- C/W AD16-23-03 TURBE V BAND CLAMP INSPECTION IAW MSB 40NG-046/2
- ACCOMPLISHED GROUND RUNS AND NO FAULTS NOTED.

NEXT INSP DUE: 833.9

6 REPLACED INTERCOOLER 45° ELBOW PER 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: 08-24-2023 SIGNED: K Del Kerry Delhomme A&P: 3473912

WORK ORDER: 01050
Printed by EBIS (EBISCloud.com)

01079 (10-13-2023) MYFLIGHT 400 Herdon Ave Orlando , FL 32803
MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC087
REG. NO:: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-00688

Page 1 / 1
W/O #: 01079
DATE: 10-13-2023
A/C TT: 828.1
A/C Tach: 828.1
ENG TT: 828.1

Entries
2 - C/W 300 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. REPLACED FILTER AND SERVICED TO CORRECT LEVEL.
- COMPLIED WITH AD 16-23-03 TURBO V-BAND CLAMP INSP.
- GROUND RUN ACCOMPLISHED . NO FAULTS NOTED.

4 REPLACED ALTERNATOR BRUSHES PER AUSTRO MM .

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: 10-13-2023 SIGNED: K Del Kerry Delhomme A&P: 3473912

WORK ORDER: 01079
Printed by EBIS (EBISCloud.com)

Section 3A: Engine Service and Maintenance Log

DATE	TIME RUN		TIME SINCE OVERHAUL		CYCLES		DESCRIPTION OF WORK PERFORMED (INSPECTION, REPAIRS, REPLACEMENT)	NAME/ SIGNATURE	LICENCE: AME or AMO/ACA
/ /	HOURS	min	HOURS	min	Sub Total	TOTAL			
BROUGHT FORWARD									

01074 (11-30-2023)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC087
REG. NO.: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE S/N: E4-A-00688

MYFLIGHT 400 Herdon Ave Orlando , FL 32803

Page 1 / 1
W/O #: 01074
DATE: 11-30-2023
A/C TT: 906.4
A/C Tach: 906.4
ENG TT: 906.4

Entries

2 PERFORMED 100 (900) HR. INSPECTION USING DIAMOND AMM AND AUSTRO MM 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.
PREFORMED ALTERNATOR CHECK PER DIAMOND AMM.
ENGINE WAS GROUND RUN AND LEAK CHECKED GOOD.

4 REMOVED EXHAUST AND REPLACED GASKETS PER AUSTRO MM 78-10-00. SERVICED COOLANT PER DIAMOND MM 12-00-00. RAN ENGINEN,OPS CK GOOD.

5 REMOVED AND REPLACED LH FWD. SHOCK MOUNT PER DIAMOND MM 78-20-00.

8 COMPLIED WITH STARTER MSB PER DIAMOND MSB WORK INSTRUCTIONS MSB 40NG-080-REV 2.

10 UPDATED ECU SOFTWARE TO VERSION VC33_07_26

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

DATE: 11-30-2023 SIGNED: Kerry Delhomme A&P: 3473912

WORK ORDER: 01074
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01157 (02-05-2024)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC087
REG. NO.: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE S/N: E4-A-00688

MYFLIGHT 400 Herdon Ave Orlando , FL 32803

Page 1 / 1
W/O #: 01157
DATE: 02-05-2024
A/C TT: 1006.8
A/C Tach: 1006.8
ENG TT: 1006.8

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 @ 1106.4

4 COMPLIED WITH TIMING CHAIN INSPECTIONPER AUSTRO MM 85-40-00.

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: 02-05-2024 SIGNED: Kerry Delhomme A&P: 3473912

WORK ORDER: 01157
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PREVIOUS TOTALS							
TOTALS SINCE NEW							

CARRY FORWARD to Next Page

01172 (02-21-2024)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC087
REG. NO.: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE S/N: E4-A-00688

MYFLIGHT 400 Herdon Ave Orlando , FL 32803

Page 1 / 1
W/O #: 01172
DATE: 02-21-2024
A/C TT: 1047.1
A/C Tach: 1047.1
ENG TT: 1047.1

Entries

1 REPLACED BPA AND ADJUSTED WASTE GATE ACTUATOR. RAN ENGINE ,OPS CK GOOD. DONE IAW AUSTRO MM 85-00-00.

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

DATE: 02-21-2024 SIGNED: Kerry Delhomme A&P: 3473912

WORK ORDER: 01172
Printed by EBIS (EBISCloud.com)

01190 (03-05-2024)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA40NG
S/N: 40.NC087
REG. NO.: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE S/N: E4-A-00688

MYFLIGHT 400 Herdon Ave Orlando , FL 32803

Page 1 / 1
W/O #: 01190
DATE: 03-05-2024
A/C TT: 1074.6
A/C Tach: 1074.6
ENG TT: 1074.6

Entries

1 REPLACED BPA AND WASTE GATE ACTUATOR DUE TO OVERBOOST PER AUSTRO MM 81-20-00.
OPS CK GOOD

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

DATE: 03-05-2024 SIGNED: Kerry Delhomme A&P: 3473912

WORK ORDER: 01190
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01125 (04-04-2024)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC087
REG. NO: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-00688

MYFLIGHT 400 Herdon Ave Orlando , FL 32803

Page 1 / 1
W/O #: 01125
DATE: 04-04-2024
~~A/C TT: 1099.6~~
~~A/C Tach: 1099.6~~
~~ENG TT: 1099.6~~
A/C TT: 1100.6
A/C Tach: 1100.6
ENG TT: 1100.6

Entries

2 - C/W 300 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 WITH NEW SPIRAX GEARBOX OIL TO CORRECT LEVEL.
- COMPLIED WITH AD 16-23-03 TURBO V-BAND CLAMP INSP.
- GROUND RUN ACCOMPLISHED . NO FAULTS NOTED.
NEXT INSP. DUE @ 1200.6

7 REPLACED LOWER 45 DEGREE RADIATOR HOSE. LEAK AND OPS CHECK GOOD.

10 FLYWHEEL VISUAL INSPECTION AND BENCH CHECK C/W PER AUSTRO MM 85-00-00. LK AND OPS 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: 04-04-2024 SIGNED: Kerry Delhomme A&P: 3473912

WORK ORDER: 01125
Printed by EBIS (EBISCloud.com)

Section 3A: Engine Service and Maintenance Log

DATE	TIME RUN		TIME SINCE OVERHAUL		CYCLES		DESCRIPTION OF WORK PERFORMED (INSPECTION, REPAIRS, REPLACEMENT)	NAME/ SIGNATURE	LICENCE: AME or AMO/ACA
	HOURS	min	HOURS	min	Sub Total	TOTAL			
BROUGHT FORWARD									

01242 (05-31-2024)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC087
REG. NO: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-00688

MYFLIGHT

400 Herdon Ave
Orlando , FL 32803

Page 1 / 1
W/O #: 01242
DATE: 05-31-2024
A/C TT: 1199.4
A/C Tach: 1199.4
ENG TT: 1199.4

Entries

2 -PERFORMED 100 (600) HR. INSPECTION USING AUSTRO AND DIAMOND AMM AS A GUIDE.
-SERVICED ENGINE WITH 7 LITERS OF AEROSHELL DIESEL ULTRA 5W30.
-REPLACED ENGINE OIL FILTER WITH NEW, 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.
-PREFORMED ALTERNATOR BRUSH CHECK AND FUNCTION CHECK PER AUSTRO AMM.
-REPLACED INLET AIR FILTER WITH NEW, P/N RU-1620.
-ENGINE GROUND RUN AND LEAK CHECK GOOD.

8 -REMOVED OLD BROKEN OIL PRESSURE SENSOR AND REPLACED WITH NEW CURRENT STYLE SENSOR. OPS CHECK GOOD, NO DISCREPANCIES NOTED.

9 -REMOVED AND REPLACED HIGH PRESSURE PUMP WITH NEW I/A/W AUSTRO MM 73-10-03, A-B, P/N E4A-30-000-BHY, S/N 23-01-17-02-01667.
-LEAK CHECK AND OPS CHECK GOOD, NO DISCREPANCIES NOTED.

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

DATE: 05-31-2024 SIGNED: Landon Moore
Landon Moore
A&P: 4916802

WORK ORDER: 01242
Printed by EBIS (EBISCloud.com)

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 AIRWPRTHY CONDITION
FOR RETURN TO SERVICE.

TACH TIME 1199.4 HOBBS TIME N/A

TOTAL TIME IN SERVICE 1199.4 TTOE 1199.4

TTSMO N/A TTSTO N/A

SIGNATURE Thomas W Blanton
INSP. AUTHORIZATION A&P 1385137 IA

DATE OF INSPECTION 06 - 01 - 2024

THIS PAGE TOTALS						
PREVIOUS TOTALS						
TOTALS SINCE NEW						

CARRY FORWARD to Top of Next P

01381 (10-21-2024)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC087
REG. NO: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-00688

MYFLIGHT

400 Herdon Ave
Orlando , FL 32803

Page 1 / 1
W/O #: 01381
DATE: 10-21-2024
A/C TT: 1294.6
A/C Tach: 1294.6
ENG TT: 1294.6

Entries

1 C/W 100HR ENGINE SERVICE IAW DIAMOND MM CHAPTER 5. CHANGED ENGINE OIL AND FILTER, CUT OPEN OLD FILTER AND INSPECTED IT FOR METAL. NO METAL NOTED AT THIS TIME AND LEAKED CHECKED GOOD. INSPECTED GEARBOX MAGNETIC PLUG AND FILTER, NO DEFECTED NOTED AT THIS TIME. REMOVED AND REPLACED FUEL FILTER.

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

DATE: 10-21-2024 SIGNED: Matthew Hughes
A&P: 3705688

WORK ORDER: 01381
Printed by EBIS (EBISCloud.com)

01415 (11-19-2024)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC087
REG. NO: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-00688

MYFLIGHT

400 Herdon Ave
Orlando , FL 32803

Page 1 / 1
W/O #: 01415
DATE: 11-19-2024
A/C TT: 1323.4
A/C Tach: 1323.4
ENG TT: 1323.4

Entries

1 -REMOVED AND REPLACED BPA P/N: E4A-41-300-801, AND ITS RESTRICTOR P/N: AEP-00361, WITH NEW I/A/W AUSTRO MM 81-20-40.
-OPS CHECK GOOD.

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

DATE: 11-19-2024 SIGNED: Landon Moore
Landon Moore
A&P: 4916802

WORK ORDER: 01415
Printed by EBIS (EBISCloud.com)

01663 (07-17-2025)

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC087
REG. NO: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-00688

MYFLIGHT

400 Herdon Ave
Orlando , FL 32803

Page 1 / 1
W/O #: 01663
DATE: 07-17-2025
A/C TT: 1398.9
A/C Tach: 1398.9
ENG TT: 1398.9

Entries

2 PERFORMED 100HR / ANNUAL ENGINE INSPECTION IAW 14 CFR PART 43, APPENDIX D, AUSTRO E4 SERIES MM 05-20, AND DIAMOND DA40 AMM 05-20.
-CHANGED OIL, FILTER AND SERVICED WITH 7 QT'S AEROSHELL DIESEL ULTRA.
-REPLACED FUEL FILTER.
-REPLACED COOLANT.
-PERFORMED GEARBOX AND FILTER CHECK. DISCREPANCIES NOTED IN ITEM #20.
-COMPLIED WITH AD 16-23-03 TURBO V-BAND CLAMP INSP.

20 REMOVED AND REPLACED GEARBOX WITH NEW PER AUSTRO E4 SERIES MM 85-10. SERVICED WITH NEW SPIRAX 75W-80; P/N OFF: E4A-70-000-000 ISS. AC2, S/N OFF: 03368; P/N ON: E4A-70-000-000-AP, S/N ON: 07308.

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: 07-17-2025 SIGNED: Adam Delacerda
Adam Delacerda
A&P: 4588515

WORK ORDER: 01663
Printed by EBIS (EBISCloud.com)

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							

01663 (07-17-2025) Page 1 / 1

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC087
REG. NO: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-00688

MYFLIGHT

400 Herdon Ave
Orlando , FL 32803

W/O #: 01663
DATE: 07-17-2025
A/C TT: 1398.9
A/C Tach: 1398.9
ENG TT: 1398.9

Entries

4 REMOVED AND REPLACED WASTEGATE CONTROLLER, WITH NEW CONTROLLER I.A.W AUSTRO MM CHAPTER 81-20.

7 REMOVED AND REPLACED V-RIBBED ALTERNATOR BELT, I.A.W AUSTRO ENGINE 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: 07-17-2025 SIGNED: Joel Mastrapa A&P: 5003987

WORK ORDER: 01663

Printed by EBIS (EBISCloud.com)

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 AIRWPRTHY CONDITION

FOR RETURN TO SERVICE.

TACH TIME 1398.9 *HOBBS TIME* N/A

TOTAL TIME IN SERVICE 1398.9

TTSMO N/A *TTSTO* N/A

SIGNATURE Thomas W Blake

INSP. AUTHORIZATION A&P 1885137 IA

DATE OF INSPECTION 06-11-25

01782 (09-09-2025) Page 1 / 1

MAKE: DIAMOND AIRCRAFT INDUSTRIES
MODEL: DA-40 NG
S/N: 40.NC087
REG. NO: N387LA
ENGINE MAKE: AUSTRO
ENGINE MODEL: E4
ENGINE SN: E4-A-00688

MYFLIGHT

400 Herdon Ave
Orlando , FL 32803

W/O #: 01782
DATE: 09-09-2025
A/C TT: 1424.9
A/C Tach: 1424.9
ENG TT: 1424.9

Entries

1 REMOVED AND REPLACED FUEL PRESSURE SENSOR WITH NEW P/N: AEP-00284-901 PER AUSTRO E4 SERIES MM 71-50 AND AUSTRO RSB-E4-028/3. GROUND RUN SHOWS NO FURTHER ECU FAULTS AND FUEL PRESSURE READINGS WITHIN NORMAL RANGE.

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

DATE: 09-09-2025 SIGNED: Adam Delacerda A&P: 4588515

WORK ORDER: 01782

Printed by EBIS (EBISCloud.com)

THIS PAGE TOTALS

PREVIOUS TOTALS

TOTALS SINCE NEW

AUTHORISED RELEASE CERTIFICATE
EASA FORM 1
Freigabebescheinigung EASA-Formblatt 1

1. Approving Competent Authority/Country Zuständige Genehmigungsbehörde / Staat	2.	3. Form Tracking Number Lfd. Nummer
Luftfahrt-Bundesamt / Germany		3010/19
4. Organisation Name and Address: Name und Anschrift des Unternehmens	MT-Propeller Entwicklung GmbH Airport Straubing-Wallmühle 94348 Atting - Germany	5. Work Order/Contract/Invoice Arbeitsauftrag/Bestellung/Rechnung 2010022511

6. Item Pos.	7. Description Beschreibung	8. Part No. Teile-Nr.	9. Qty. Menge	10. Serial No. Werk-Nr.	11. Status/Work Status/Arbeiten
1	MTV-Propeller	MTV-6-R/190-69	1	190966	"NEW"
2	Spinner Assembly	P-828	1	N/A	"NEW"
	(1)This propeller confirms to its United States type design (Type Certificate no. P19NE) and is in a condition for save operation (2)This propeller has been subjected by the manufacturer to a final operation check and is in a proper state for airworthiness. Reference FAR Section 21.500 which provides for the airworthiness acceptance of aircraft, engines or propellers manufactured outside the U.S. for which a U.S. type certificate has been issued. Additional guidance is contained in Advisory Circular 21-29, Airworthiness Certification of Civil Aircraft, Engines, Propellers and Products, imported into the United States.				

12. Remarks / Bemerkungen

New Propeller
Blades: 1: AKE-76454, 2: AKE-76455, 3: AKE-76456
Year of construction: 2019, TSN: 00:00 hrs.
The propeller conforms with the EASA TCDS No. P.094, rev. 3
The propeller conforms to the FAA TCDS No. P19NE, rev. 7
The propeller identified by this Certificate has been examined and found to conform to the Canadian Department of Transport Type Certificate P-42, issue 3

13a. Certifies that the items identified above were manufactured in conformity to:
Bescheinigt, dass die oben angegebenen Artikel hergestellt wurden in Übereinstimmung mit:

☒ approved design data and are in a condition for safe operation
genehmigten Konstruktionsdaten und sich in einem betriebssicheren Zustand befinden

☐ non-approved design data specified in block 12
nicht genehmigten Konstruktionsdaten gemäß Angabe in Feld 12

14a ☐ Part-145.A.50 Release to Service
Teil-145.A.50 Freigabe

☐ Other Regulation specified in block 12
Andere in Feld 12 angegebene Vorschrift

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.
Bescheinigt hiermit, dass, wenn in Feld 12 nichts anderes festgelegt ist, die in Feld 11 aufgeführte und in Feld 12 beschriebene Arbeit in Übereinstimmung mit Teil-145 durchgeführt wurde und dass der Artikel im Hinblick auf diese Arbeit für die Erteilung einer Freigabe geeignet ist.

13b. Authorised Signature Rechtsgültige Unterschrift	13c. Approval/Authorisation Number Nr. der Genehmigung DE.21G.0008	14b. Authorised Signature Rechtsgültige Unterschrift	14c. Certificate/Approval Ref. No Nr. der Genehmigung / Zulassung
13d. Name Name Alois Zirngibl	13e. Date (dd mmm yyyy) Datum (TT MMM JJJJ) 23 Aug 2019	14d. Name Name	14e. Date (dd mmm yyyy) Datum (TT MMM JJJJ)

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 block 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.

VERANTWORTLICHKEITEN DES BENUTZERS/AUSRÜSTERS
Diese Bescheinigung verleiht nicht automatisch die Befugnis zum Einbau der Artikel. Führt der Benutzer/Ausrüster Arbeiten in Übereinstimmung mit den Vorschriften einer anderen Luftfahrtbehörde als der in Feld 1 angegebenen Luftfahrtbehörde durch, muss der Benutzer/Ausrüster sicherstellen, dass seine Luftfahrtbehörde Artikel der in Feld 1 angegebenen Luftfahrtbehörde akzeptiert. Angaben in den Feldern 13a und 14a stellen keine Einbaubescheinigung dar. In jedem Fall müssen die Instandhaltungsunterlagen des Luftfahrzeugs eine Einbaubescheinigung enthalten, die in Übereinstimmung mit den nationalen Vorschriften vom Benutzer/Ausrüster ausgestellt wurde, bevor ein Flug mit dem Luftfahrzeug durchgeführt werden darf.

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