

Engine Log Book

Motor Logbuch



Austro Engine

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E4

Baureihe:
Model:

E4P

Motor - Nr.:
Engine serial no:

E4P-G-00040

1

Baumuster:
Type of engine:Austro Engine GmbH
A-2700 Wiener Neustadt, Rudolf-Diesel-Straße 11, AustriaHersteller:
Manufacturer:

EASA.E.200

Baujahr:
Year of manufacture:

2016

Kennblatt:
Data sheet:

Der oben bezeichnete Motor ist als betriebstüchtig anzusehen, wenn er gemäß der Zivilluftfahrt- und Luftfahrtgeräte-Verordnung, letztgültige Ausgabe und den Betriebs- und Wartungsanweisungen entsprechend betrieben und gewartet wird.
The above mentioned engine is considered to be operationally reliable if operated and maintained in accordance with the civil aviation regulations, latest legal issue and the pertinent operational and maintenance instructions.

Bemerkungen:
Remarks:

Jedes Wartungsereignis, als auch ein Komponenten Tausch muss im Engine Log dokumentiert werden.
Please note that every performed maintenance as well as component replacements have to be documented in the log book.

Prüflauf durchgeführt

Test run carried out.

Datum:
Date:

28 APR 2016

Unterschrift:
Signature:

Motor Hauptkomponenten / Engine main components

Bezeichnung Designation	Teile Nummer Part number	Revision Revision	Seriennummer Serial number	TSN
Motorsteuergerät Engine Electronic Control Unit Hardware	E4A-92-100-000	030	1477	00:00
Motorsteuergerät Software Vers. Engine Electronic Control Unit Software	E4PC-92-200-000	000	VC33_2P_05_18_pre1	00:00
Glühstift Kontroll Box Glow Plug Control Unit	E4A-94-200-000	042	001662	00:00
Motor Kabelbaum Engine Harness	E4B-95-000-000	021	EW0151005	00:00
Generator Generator	E4A-91-400-000	000	00599	00:00
Getriebe Gearbox	E4A-70-000-000	112	2088	00:00
Kraftstoff Hochdruckpumpe High Pressure Fuel Pump	E4A-30-200-000	010	12-04-12-03-00044	00:00
Kraftstoff Verteilerleitung Common Rail	E4A-33-100-000	010	1209400147	00:00
Turbolader Turbocharger	E4C-41-100-000	000	RL5026456800005	00:00
Schwungrad Fly Wheel	E4A-73-300-000	030	01463	00:00
Fuel Injekt. IMA Code #1 #2 #3 #4 Fuel Injekt. IMA-Code #1 #2 #3 #4	E4A-35-000-000	000	#1: 8I8PDA; #2: 7SICF1; #3: 8Y8V7E; #4: BH85ES;	00:00

Datum:
Date:

28 APR 2016

Unterschrift:
Signature:



SN: E4P-C-00094 Status Service Bulletin (SB)		Service Information (SI) / Record of engine modification status			
SB-No	Title	Status	SB-No	Title	Status
MSB-E4-002/2	Configuration Specification of the E4 Engine	performed	RSB-E4-016/1	Oil dip stick	performed
MSB-E4-003/17	SW u. HW Versions of the E4 Engine	performed	RSB-E4-018	Inspection of engine harness	performed
MSB-E4-004	Long term conservation of E4 Engines	Only for information	OSB-E4-019/2	Gearbox Oil Cooler	Only for information
MSB-E4-006	Repair of sensor cable for camshaft sensor	Complied with at production			performed
MSB-E4-007/6	Replacement of waste gate controller	Complied with at production			
MSB-E4-008/2	Exchange of oil separator hose	Complied with at production			
MSB-E4-009/2	Replacement of high pressure pump	Complied with at production			
MSB-E4-013/1	Gearbox oil inspection	Complied with at production			
MSB-E4-013/1	Replacement of the fuel return line	Complied with at production			
MSB-E4-014/2	Check/Exchange of timing chain	Only for information			
MSB-E4-017/1	Inspection of Gearbox Housing	Only for information			
MSB-E4-020					
AD-No	Title	Status	SI-No	Title	Status
GASA AD 2013-0213	Replacement of waste gate controller (MSB-E4-007/6)	Complied with at production	SI-E4-001/2	Life time and TBO extension	Only for information
GASA AD 2011-0039	Replacement of high pressure pump (MSB-E4-009/2)	Complied with at production	SI-E4-002	Gearbox oil check procedure update	Only for information
FAR AD 2011-18-19	Replacement of high pressure pump (MSB-E4-009/2)	Complied with at production	SI-E4-003	Technical publication and reporting system of AE	Only for information
FAR AD 2014-08-10	Replacement of waste gate controller (MSB-E4-007/6)	Complied with at production	SI-E4-004	EECU venting element	Only for information
CAAC CAD2013-DA42-01R1	Replacement of high pressure pump (MSB-E4-009/2)	Complied with at production			

The engine modification status consists of the applicable revision of the Type Design Definition, the Build Manual and additional

Type Design Definition: E4.08.01 Rev. 11

Build Manual: E4.08.02 Rev. 18

Design changes:

ADC-E4-001c; ODC-E4-008a;
MDC-E4-337b; MDC-E4-354; MDC-E4-363;

Date: _____

28 APR 2016

Signature of Certifying Staff

Signature: _____



ENGINE DATA

1. Make

2. Model

3. Specification

1. Make:

4. Manufacturer's Serial Number

2. Model:

5. Date of Manufacture

3. Specification:

6. Aircraft Inspection Cycle

4. Manufacturer's Serial Number:

5. Date of Manufacture:

6. Aircraft Inspection Cycle:

Austro Engine GmbH

E4P-C

E00081EN

E4P-C-00040

April 28, 2016

ENGINE LOG

AeroTRANSPORT™ 
www.aerotransport.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							



AMO 161-93

Manufacturer
Diamond
Austro

Model
DA 62
E4P-C

Aircraft Reg: N32GH
Work Order: RO-16-074

SN
62 026
E4P-C-00040

Date: July 12, 2016

TSN 31.8 Hrs
TSN 31.8 Hrs

- Engine Model E4P-C, SN E4P-C-00040 installed on aircraft DA 62 SN 62 02, Right
- Total time brought forward 31.8 Hrs
- EECU software installed VC33_2P_05_18_pse1
- Engine and documentation inspected for Major Mod's and/or STC's incorporated. None found
- All applicable Airworthiness Directives and Service Bulletins complied with
- Airworthiness Directive biweekly checked thru 2016-14

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

Signature

Michael Cingari

Lic or ACA:

DA
RO.6

9-30-16

N32GH

DA62

S/N 62.026

Austro E4P-C

R/H Engine

S/N E4P-C-00040

TT 59.3 TTSN 59.3

Engine oil and filter was changed using 100hr service kit, filter element inspected. Serviced engine with 7.5L Aeroshell Ultra Diesel 5W-30 oil. Engine was washed, ground run, and checked for leaks, none found.

Michael Cingari

Michael Cingari A&P 2631255 IA

6-18-17

N32GH

DA62

S/N 62.026

Austro E4P-C

R/H Engine

S/N E4P-C-00040

TT 102.5 TTSN 102.5

Engine oil and filter was changed using 100hr service kit, filter element inspected. Serviced engine with 7.5L Aeroshell Ultra Diesel 5W-30 oil. Engine was washed, ground run, and checked for leaks, none found.

Michael Cingari

Michael Cingari A&P 2631255 IA

THIS PAGE
TOTALS

PREVIOUS
TOTALS

TOTALS
SINCE NEW

CARRY FORWARD to Top of Next Page

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 PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)

Diamond
Work Order # 80 871826 / 80 871887

DIAMOND AIRCRAFT INDUSTRIES INC.
D.O.T. APPROVED MAINTENANCE ORGANIZATION
#16143

Registration: N32GH	A/C Serial Number: 82.026	TTSN Airframe: 119.6 hrs
L/H Engine Serial Number: E4P-C-00039		TTSN L/H Engine: 119.6 hrs
R/H Engine Serial Number: E4P-C-00040		TTSN R/H Engine: 119.6 hrs
L/H Prop Serial Number: 160135		TTSN L/H Prop: 119.6 hrs
R/H Prop Serial Number: 160137		TTSN R/H Prop: 119.6 hrs

RH Engine: Ser. No. E4P-C-00040.

- 100 Hour inspection of the Engine performed I.A.W DA 62 AMM Doc.7.02.25 Rev.1 Chapter 05-28-00 & Austro Engine Maintenance Manual Doc. E4.08.04 Rev.27 Chapter 05-20-00.
- Engine Oil drained and Engine serviced with 7 Litres of Aeroshell Diesel Ultra Oil.
- Gear Box Serviced
- Oil Filter replaced with new unit.
- Fuel Filter replaced with new unit.
- Cooling system serviced
- Ground Run up of the Engine and Fluid leak check carried out and deemed satisfactory
- Austro MSB E4-024/1 - waste gate controller circlip installation CAN
- Austro MSB E4-003/22, Engine software update to VC33-2P-06-21
- DAI MSB62-002/2 - Engine software update to VC33-2P-06-21
- DAI RSB62-010 - turbo charger V-Ciamps replaced with new
- AWD BI Weekly Checked Thru 2017-22

Dual inspection Carried out on all engine and flight controls affected by Work Performed.

Inspector / ACA : _____ Date: _____

The work described above was carried out IAW the applicable Standard of Airworthiness.


Inspector



NOV 08 2017
date

NAME/
SIGNATURELICENCE:
AME or
AMO/ACADIAMOND AIRCRAFT INDUSTRIES INC.
D.O.T. APPROVED MAINTENANCE ORGANIZATION
#181-83

Work Order # 90 0708 / 90 0708

Registration: N32GH
 LH Engine Serial Number: E4P-C-00039
 RH Engine Serial Number: E4P-C-00040
 LH Prop Serial Number: 160135
 RH Prop Serial Number: 160137

TTSN Airframe: 122.1 hrs
 TTSN LH Engine: 122.1 hrs
 TTSN RH Engine: 122.1 hrs
 TTSN LH Prop: 122.1 hrs
 TTSN RH Prop: 122.1 hrs

Following Non-Routine Maintenance Performed RH Engine

- MSB E4-022 / 1, waste gate controller
 - Removed Waste Gate controller and replaced with new
 - PN: E4A-41-120-000, rev 080
- RH Engine, LH forward engine mount replaced
 - PN: D64-7125-14-70



The work described above was carried out IAW the applicable Standard of Airworthiness.

NOV 17 2017

date

6-27-18 N32GH DA62 S/N 62.026

Austro E4P-C R/H Engine S/N E4P-C-00040 TT 174 TTSN 174

Engine oil and filter was changed using 100hr service kit, filter element inspected. Serviced engine with 7.5L
 Aeroshell Ultra Diesel 5W-30 oil. Engine was washed, ground run, and checked for leaks, none found.

Michael Cingari A&P 2631255 IA

Registration: N32GH
 Make: Austro
 Model: E4P-C
 Serial No.: E4P-C-00040
 Invoice No.: 26572
 CRS# XGKR718T



13310 Nevada City Ave.
 Grass Valley, CA 95945
 (530) 477-7701

Date: October 24, 2018
 TIS: 184.2
 TT Engine: 184.2

Description of Inspections, Tests, Repairs, and Alterations.

- C/W Austro MSB-E4-022/4 Waste Gate Control Rod Terminating Action by installing Failsafe Bridge Kit p/n AEP-00265-000. Repetitive Action no longer applies.
- C/W Austro RSB-E4-021 Fuel Pressure Sensor- Connector Modification IAW WI-RSB-E4-021.

This aircraft, airframe, aircraft engine, propeller, or appliance identified above was repaired and inspected in accordance with FAA regulation and is approved for return to service.

Signature

CRS# XGKR718T

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							
Registration	N32GH		ALPINE		AVIATION		Date
Make	Austro						TIS
Model	E4P-C						TT Engine
Serial No.	E4P-C-00040		13310 Nevada City Ave.				February 7, 2019
Invoice No.	26877		Grass Valley, CA 95945				207.7
	CRS# XGKR718T		(530) 477-7701				207.7

Description of Inspections, Tests, Repairs, and Alterations.

- 1 Performed an Annual Inspection IAW Diamond Aircraft DA62 200 hour Maintenance Checklist.
- 2 C/W Austro 100 hour Inspection items.
- 3 Changed Engine Oil w/ 6 L Aeroshell Diesel Ultra engine oil.
- 4 Replaced Engine Oil Filter w/ new p/n E4A-52-100-802. Insp. old filter for contaminants- none found.
- 5 Replaced FWD R/H Shock Mount w/ new p/n D64-7126-14-71.
- 6 Serviced Engine Coolant to correct level.
- 7 Removed, cleaned, and reinstalled Engine Breather Adaptor.
- 8 C/W AD 2018-18-02 Failure of Engine Timing Chain by installing TR-MÄM-62-240 in AFM.
- 9 Performed an Engine Ground Test and Leak Check- OK.

I certify that this engine has been inspected in accordance with an Annual Inspection and found to be in airworthy condition.

Signature Sergey Batov CRS# XGKR718T

N32GH
Austro E4P-C
Serial No. E4P-C-0040
1901 Embarcadero Rd. Executive Hangar One, Palo Alto, CA 94303
Tel. (650) 565-0063
AERO WORKS dba
10/15/2019
Tach: 317.5
TTA/TTE: 317.5

Right Engine Entry:

Performed 100/300 Hour Inspection of the engine using the Diamond DA62 and Austro maintenance manuals 100/300 hour checklists as a guide. AD2018-07-16 recurring waste gate controller repetitive replacement terminated by global AMOC dated 3/06/2019 and Austro SI-E4-011. Drained the gear box oil and serviced the gearbox with SPIRAX-S6-GXME75W-80 and gear box filter and o-ring p/n E4A-70-000-806. Drained the oil and serviced the engine with E4A-52-000-KIT and 7 quarts Aeroshell Diesel 5W30. Took gearbox and engine oil samples for Ole-Check analysis. Performed run up, data down load, and operational check, all parameters appear normal.

Carrie L. Ferguson

Carrie L. Ferguson A&P 2806332 LA

Details on file at this facility under Work Order No. 2019-4035

Advancetech Aircraft Maintenance, Inc.

1605 Moffett Street, Salinas, CA 93905
(831) 422-2142 FAX (831) 422-3221
FAA Repair Station BL3R401L

N32GH S/N 62.026 HOBBS 345.9 ACTT 345.9 W/O 6298 12/30/19

RIGHT ENGINE LOG ENTRY

1. Complied with all 300 hour right engine inspection requirements in accordance with the Diamond Model DA62 and Austro Engine Model E4P-C Maintenance Manuals.

I certify this ENGINE has been inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service.
Pertinent details are on file with this agency under Work Order # 6298, dated 12/30/19.

Signed

FAA Approved Repair Station BL3R401L

NAME/
SIGNATURELICENCE:
AMEP
AMO/JCA**Advancetech Aircraft Maintenance, Inc.**1605 Moffett Street, Sallnas, CA 93905
(831) 422-2142 FAX (831) 422-3221
FAA Repair Station BL3R401LN32GH S/N 62.026 HOBBS 367.3 ACTT 367.3 W/O 6314 3/2/20
MODEL E4P-C S/N E4P-C-0040 TSN 367.3**RIGHT ENGINE LOG ENTRY**

1. Complied with Annual Inspection / 200 Hour Checks in accordance with the Diamond Model DA62 Maintenance Manual.
2. Complied with the following 100 hour inspection and servicing requirements in accordance with the Diamond Model DA62 Maintenance Manual: 100 hour inspect-right engine EECU readouts.
3. Complied with 100 hour right engine oil and oil filter change. Removed oil sample. Inspected the removed oil filter for contaminants. Installed oil filter **P/N E4A-52-100-802** and serviced with Aeroshell Ultra Diesel 5W-30 engine oil. Ran engine and leak checked.
4. Complied with 200 hour replacement of the right engine air filter. Installed new air filter **P/N RU-1620**.

RIGHT ENGINE LOG ENTRY CONTINUED

1

N32GH S/N 62.026 HOBBS 367.3 ACTT 367.3 W/O 6314 3/2/20
MODEL E4P-C S/N E4P-C-0040 TSN 367.3

5. Complied with the following 12 month / 100 hour inspection and servicing requirements in accordance with the Diamond Model DA62 Maintenance Manual: 12 month / 100 hour inspect-drain hole inspection; 12 month / 100 hour inspect-right engine cooling system; 12 month / 100 hour inspect-right engine oil separator breather lines; 12 month / 100 hour inspect-right engine harnesses and sensors; 12 month / 100 hour inspect-right engine zonal inspection; 12 month / 100 hour inspect-right engine wastegate controller; 12 month / 100 hour inspect-right engine exhaust system; 12 month / 100 hour inspect-right engine fuel system; 12 month / 100 hour inspect-right cylinder head drains; 12 month / 100 hour replace-right engine fuel filter.
6. Replaced the right hand engine drain adaptor due to oil leaking on the engine breather hoses. Installed new drain adaptor **P/N D64-7176-20-00**.

END

I certify this ENGINE has been inspected and repaired in accordance with an ANNUAL INSPECTION and was determined to be in airworthy condition.
Pertinent details are on file with this agency under Work Order # 6314, dated 3/2/20.

Signed

FAA Approved Repair Station BL3R401L

2

Advancetech Aircraft Maintenance, Inc.

1605 Moffett Street, Salinas, CA 93905
(831) 422-2142 FAX (831) 422-3221
FAA Repair Station BL3R401L

N32GH S/N 62.026 HOBBS 377.5 ACTT 377.5 W/O 6327 4/30/20

RIGHT ENGINE LOG ENTRY

1. Replaced the right engine coolant reservoir pressure relief valve assembly. Removed the right engine upper cowling as required to gain access. Removed old relief valve assembly and installed new relief valve assembly P/N X11-0014-00-00.00. Reinstalled engine cowling. Ran engine and leak checked.

-----END-----

I certify this ENGINE has been inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file with this agency under Work Order # 6327, dated 4/30/20.

Signed

FAA Approved Repair Station BL3R401L

1

Advancetech Aircraft Maintenance, Inc.

1605 Moffett Street
Salinas, CA 93905
(831) 422-2142 FAX (831) 422-3221
FAA Repair Station BL3R401L

N32GH S/N 62.026 HOBBS 455.4 ACTT 455.4 W/O 6401 12/28/20
MODEL E4P-C S/N E4P-C-0040 TSN 455.4

RIGHT ENGINE LOG ENTRY

1. Complied with a Diamond Model DA62 100-Hour Inspection in accordance with the Diamond Model DA62 Maintenance Manual.
2. Complied with all 100 hour right engine inspection, replacement and lubrication requirements in accordance with Chapter 5-20-00 of the Austro Model E4P-C Maintenance Manual.
3. Complied with 100 hour right engine oil and oil filter change. Removed oil sample. Inspected the removed oil filter as required for contaminants. Installed new oil filter P/N E4A-52-100-802 and serviced the engine with Aeroshell Ultra Diesel 5W-30 engine oil. Ran engine and leak checked.

RIGHT ENGINE LOG ENTRY CONTINUED

1

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PREVIOUS
TOTALS

TOTALS
SINCE NEW

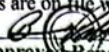
CARRY FORWARD to Top of Next Page

4. Complied with the following 100 hour / 12 month inspection and servicing requirements in accordance with the Diamond Model DA62 and the Austro Model E4P-C Maintenance Manuals: 100 hour / 12 month inspect-right engine oil separator breather line; 100 hour / 12 month inspect-right engine cooling system; 100 hour / 12 month inspect-right engine oil separator breather line; 100 hour / 12 month inspect-right engine harnesses and sensors; 100 hour / 12 month inspect-right engine zonal inspections; 100 hour / 12 month inspect-right engine wastegate controller; 100 hour / 12 month inspect-right engine exhaust system; 100 hour / 12 month inspect-right engine cylinder head drains; 100 hour / 12 month replace-right engine fuel filter.

LICENCE:
AME of
AMO/ACA

END

I certify this ENGINE has been inspected and repaired in accordance with a 100-HOUR INSPECTION and was determined to be in airworthy condition. Pertinent details are on file with this agency under Work Order # 6401, dated 12/28/20.

Signed 
FAA Approved Repair Station BL3R401L

2

Advancetech Aircraft Maintenance, Inc.

1605 Moffett Street, Salinas, CA 93905
(831) 422-2142 FAX (831) 422-3221
FAA Repair Station BL3R401L

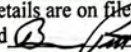
N32GH S/N 62.026 HOBBS 483.3 ACTT 483.3 W/O 6413 3/9/21
MODEL E4P-C S/N E4P-C-00040 TSN 483.3

RIGHT ENGINE LOG ENTRY

1. Complied with a Diamond Model DA62 Annual Inspection in accordance with the Diamond Model DA62 Maintenance Manual.
2. Serviced the right engine coolant tank with Glysantin coolant as required.

END

I certify this ENGINE has been inspected and repaired in accordance with an ANNUAL INSPECTION and was determined to be in airworthy condition. Pertinent details are on file with this agency under Work Order # 6413, dated 3/9/21.

Signed 
FAA Approved Repair Station BL3R401L

1

Advantech Aircraft Maintenance, Inc.

1605 Moffett Street, Salinas, CA 93905
(831) 422-2142 FAX (831) 422-3221
FAA Repair Station BL3R401L

DESCRIPTION OF WORK PERFORMED (REPAIR, MAINTENANCE, REPLACEMENT)

N32GH S/N 62.026 ACTT 534.0 W/O 6447 6/7/21

RIGHT ENGINE LOG ENTRY

1. Troubleshoot reported right hand EECU Channel A and Channel B CAS messages. Investigated faults using the Austro Engine AE300 Engine Diagnostic program. The code revealed during testing was Positive Governor Deviation Limit Exceeded. Downloaded engine data and cleared codes as required. Uncowled the engine and inspected the right engine turbocharger, wastegate and associated systems. Removed the wastegate controller as required. Lubricated the wastegate arm on the turbocharger. Checked the wastegate controller for proper rigging. Disassembled and rerigged the wastegate controller in accordance with the Austro Maintenance Manual. Reinstalled controller.

RIGHT ENGINE LOG ENTRY CONTINUED

1

N32GH S/N 62.026 ACTT 534.0 W/O 6447 6/7/21

2. Checked Austro Mandatory Service Bulletin No. **MSB-E4-028/2**, turbocharger oil return line pipe improvement, for applicability. Service bulletin was found to not be applicable by engine serial number. No further action required.

END

I certify this ENGINE has been inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file with this agency under Work Order # 6447, dated 6/7/21.

Signed

FAA Approved Repair Station BL3R401L

2

THIS PAGE
TOTALS

PREVIOUS

Advancetech Aircraft Maintenance, Inc.

1605 Moffett Street, Salinas, CA 93905
(831) 422-2142 FAX (831) 422-3221

N32GH

S/N 62.026

ACTT 549.9

W/O 6470

MODEL E4P-C

S/N E4P-C-00040

TSN 549.9

LICENCE:

AME or
AMO/ACA

RIGHT ENGINE LOG ENTRY

1. Complied with a Diamond Model DA62 Annual Inspection in accordance with the Diamond Model DA62 Maintenance Manual.
2. Checked **A.D. 2021-09-04**, engine lubrication system failure, for applicability. A.D. was found to not be applicable as engine serial number not affected per Austro **MSB-E4-030/4**.
3. Complied with Austro Mandatory Service Bulletin **MSB-E4-029/1** in accordance with service bulletin instructions.
4. Complied with the following 100 hour / 12 month right engine inspection and lubrication requirements in accordance with the Austro Engine Model E4P Maintenance Manual: 100 hour / 12 month inspect - gearbox oil; 100 hour / 12 month inspect - oil separator breather lines; 100 hour / 12 month inspect - engine harnesses and sensors; 100 hour / 12 month inspect - engine zonal inspections; 100 hour / 12 month inspect - EECU readouts; 100 hour / 12 month inspect - "V" ribbed belts; 100 hour / 12 month inspect - wastegate controllers; 100 hour / 12 month inspect - exhaust systems; 100 hour / 12 month inspect - fuel systems; 100 hour / 12 month inspect - cylinder head drains; 100 hour / 12 month change - engine oil and filters; 100 hour / 12 month replace - fuel filter elements.

RIGHT ENGINE LOG ENTRY CONTINUED

1

N32GH

S/N 62.026

ACTT 549.9

W/O 6470

MODEL E4P-C

S/N E4P-C-00040

TSN 549.9

5. Complied with the following 300 hour inspection and servicing requirements in accordance with the Diamond Model DA62 Maintenance Manual: 300 hour inspect - right engine alternator; 300 hour inspect - right engine cylinder heads; 300 hour inspect - right engine injector covers; 300 hour replace - gearbox oil and filter.
6. Complied with 300 hour inspection of the right engine two mass flywheel in accordance with the Austro Model E4P Maintenance Manual.
7. Complied with 600 hour replacement of the right engine two mass flywheel and hub in accordance with the Austro Model E4P Maintenance Manual.
8. Complied with 600 hour replacement of the right engine coolant in accordance with the Austro Model E4P Maintenance Manual.
9. Complied with 600 hour replacement of the right engine wastegate circlip in accordance with the Austro Model E4P Maintenance Manual.
10. Complied with 5 year replacement of the right engine V-ribbed belt in accordance with the Austro Model E4P Maintenance Manual. Installed new belt **P/N E4A-74-00-801**.

END

I certify this ENGINE has been inspected and repaired in accordance with an ANNUAL INSPECTION and was determined to be in airworthy condition.

Pertinent details to be filed with this agency under Work Order # 6470, dated 9/1/21.

Signed

FAA Approved Station BL3R401L

2

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

DESCRIPTION OF WORK PERFORMED
(INSPECTION, REPAIRS, REPLACEMENT)

Advancetech Aircraft Maintenance, Inc.

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N32GH S/N 62.026 HOBBS 549.9 ACTT 549.9 W/O 6513 12/6/21
MAKE AUSTRO MODEL E4P-C S/N E4P-C-00040 TSN 549.9

RIGHT ENGINE LOG ENTRY

1. Checked **A.D. 2011-18-19**, engine high pressure fuel pumps, for applicability in accordance with Austro Engine Mandatory Service Bulletin **MSB-E4-009, Revision 2**. A.D. was found to not be applicable as subject fuel pumps not installed. No further action required.
2. Checked **A.D. 20-21-24**, engine sand casted oil pump housing for applicability in accordance with Austro Engine Mandatory Service Bulletin **MSB-E4-030, Revision 4**. A.D. was found to not be applicable as engine serial numbers not affected and there has been no in-field replacement of oil pumps noted in aircraft log books. No further action required.
3. Checked **A.D. 2021-17-01**, oil pump pressure loss, for applicability in accordance with Austro Engine Mandatory Service Bulletin **MSB-E4-031, Revision 1**. A.D. was found to not be applicable as engine serial numbers not affected and there has been no in-field replacement of oil pumps noted in aircraft log books. No further action required.

LEFT ENGINE LOG ENTRY CONTINUED

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MAKE AUSTRO MODEL E4P-C S/N E4P-C-00040 TSN 549.9

4. Checked **A.D. 2021-22-20**, high pressure fuel pump driving gear damage, for applicability in accordance with Austro Engine Mandatory Service Bulletin **MSB-E4-035, Revision 3**. A.D. was found to not be applicable as subject fuel pumps not installed.
5. Complied with 600 hour replacement of the right high pressure fuel pump in accordance with the Diamond Model DA62 Maintenance Manual. Installed new left engine fuel pump **P/N E4A-30-000-BHY** S/N 21-07-08-02-00185.
6. Extracted and replaced a right hand engine turbocharger stud which was found to be stripped. Extracted stripped stud and installed new stud **P/N E4A-41-111-802**.
7. Troubleshoot reported elevated carbon monoxide readings and fuel smell in the cockpit. Inspection noted numerous exhaust leaks from the right engine exhaust manifold, turbocharger, and muffler. Removed muffler and exhaust manifold. Cleaned mating surfaces and replaced gaskets and seals as required. Reassembled right engine.

-----END-----

I certify this AIRFRAME has been inspected in accordance with current regulations of the Federal Aviation Administration and is approved for return to service. Pertinent details are on file with this agency under Work Order # 6513 dated 12/6/21.

Signed

FAA Approved Repair Station BL3R401L

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Registration #: N32GH
Manufacturer: Austro Engines
Serial No: E4P-C-00040
Part/Model No: E4P
Work Order No: 535



BLUE LINE
TECHNICAL SERVICES

TACH: 606.60
HOBBS:
A/C Total Time: 606.60
Engine TSN: 606.60
Date: 01/05/2023

- Annual Inspection.
Drained oil, pulled sample. Serviced engine with 7 liters of Aeroshell Ultra Diesel and using 100hr kit (P/N: E4A-52-000-KIT). Replaced fuel filter (P/N: WK724-3). Performed 100hr gearbox service: drained and strained gearbox oil and cleaned filter. Topped off coolant with G48. Ground run and leak check good. All ADs checked for compliance. I certify that this engine has been inspected IAW an Annual Inspection and per FAR 43 App. D and Austro MM and was determined to be in an airworthy condition.
- Removed gearbox for access. Removed flywheel for inspection, performed visual and mechanical inspections, good at this time. Reinstalled flywheel using new screws 8 ea (P/N: E4A-73-000-801). Reinstalled gearbox.
- Painted LH injector cover using firepaint.
- Installed bushings on fire sensor. PN# DS BU2-20-08-0050-C

THE AIRCRAFT, AIRFRAME, ENGINE, PROPELLER, OR APPLIANCE IDENTIFIED ABOVE WAS REPAIRED AND/OR INSPECTED IN ACCORDANCE WITH BLUE LINE TECHNICAL SERVICES LLC AND CURRENT MAINTENANCE RULES OF THE FEDERAL AVIATION REGULATIONS AND IS APPROVED WITH RESPECT TO WORK PERFORMED AT THIS TIME IN RETURN TO SERVICE.

Pertinent details of maintenance are held in this Maintenance Facility under Work Order No 535 dated .

Date: 1/05/2023

Signature:

James T. Markey
AP Number: 3352118 IA

Work Order: 535



Engine R (Annual) - page 1 of 1

Take Flight Aviation LLC · 49 Hangar Road · Montgomery, NY 12549 · 8454574188

Austro E4P-C, S/N: E4P-C-00040

March 13, 2024

N32GH
Tach: 663.7

1. Performed Annual inspection I/AW 14 CFR part 43 Appendix D using Diamond DA62 AMM and Austro Engine Maintenance Manual as references.
2. Engine ground run performed pre-inspection and engine data downloaded.
3. Oil change performed: Drained oil and removed oil filter. Inspected oil filter for contamination with no defects noted. Installed, torqued, and safety wired new oil filter as required. Engine serviced with oil as required. Installed P/N E4A-52-000 - kit-100 hour, Installed P/N Blackstone Kit - Oil Analysis, Installed (7) P/N 5W30LT - Aeroshell, Installed P/N HU615/3x - Oil filter.
4. Removed and replaced fuel filter with new filter p/n: WK724/3. Installed P/N WK724-3 - Fuel filter.
5. Gear box oil filters removed and inspected for particles, none found. Gear box oil drained and sampled, no particles found on magnetic drain plug. Reinstalled filter and drain plug. Filled gear box with 2.3L of Shell Spiral S6-GXME 75W-80 oil. Installed (1 gal) P/N SPIRAX S6-GXME75W - Gearbox Oil.
6. Visually inspected alternator, engine wiring harness and sensors, rear belt drive system, cylinder head drain, full fuel system, waste gate controller, exhaust system, and engine breather line. No defects noted.
7. Cooling system inspected. Coolant mixture ratio tested good. Verified proper operation of coolant tank pressure relief valve. Ops checked good.
8. Alternate air and cabin heat systems both inspected and verified for proper operation.
9. Air intake and turbo charging system inspected. Removed, cleaned, serviced and reinstalled K&N air filter assembly. V-Band clamp on turbo charger inspected for defects, none found.
10. Inspected engine mounts for cracks, deterioration, or loose hardware.
11. Removed and replaced overworn R/H exhaust shock mount with new unit as required. Ops. checked good. Installed P/N 597205 - Shock Mount Rev/Lot: RC1907236.
12. Performed post-maintenance engine ground run. Performed leak check, none found. Downloaded EECU engine data.
13. All routine service items performed.
14. Verified AD compliance through this date.

I certify that this engine (R/H) has been inspected in accordance with an Annual Inspection, and that this engine has been determined airworthy and is approved for return to service.

James T. Markey IA AP3166872IA

James T. Markey



Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

N32GH
Tach: 663.7

Austro, E4 SERIES, S/N: E4P-C-00040

Both R/H and L/H engines borescoped during per customer request as required in order to inspect for signs of head gasket damage. Both results showed beginning failure of head gaskets on cylinder #1 on both the R/H and L/H engines. Recommended replacement of both assemblies and confirmed best course of action with Diamond. Diamond recommended replacement of both engine head assemblies. Diamond / Austro AHY to BHY conversion in response to head gasket damage. For further reference information, see Diamond Aircraft Number 00151453.

IAW with Austro and Diamond MM, R/H engine head gasket assembly removed and replaced with new assembly as required IAW AHY to conversion. Aircraft ground-run as required in order to test engines. R/H Engine inspected for leaks or failures with no issues noted. test flown IAW MM to flight-test engine operations. Aircraft flight-test indicated no issues. Reinspected R/H engine after test-flight for leaks or failures as required with no issues noted. All ops. checked good with no defects noted or observed, head gasket replacement / conversion successful. Installed (10) P/N E4A-01-000-201 - Cylinder Head Screw, Installed P/N E4A-41-300-801 - 24V Change-Over Valve Rev/Lot: M8X20-10.9 - Bolt, Hex Head M8x20, Installed (3) P/N NL8 - Nord-Lock M8/8, 7/13, 5/2, Installed P/N E4A-33-000-804 - E4A-33-000-55-100-000 - E4A-55-100-000, Installed P/N AEP-00391-C-201 - AEP-00391-C-201, Installed P/N E4A-56-100-000 - E4A-56-100-000, Installed (4) P/N DIN7603-14X18X2.0 - Copper Gasket Rev/Lot: RC2105168, Installed P/N E4A-04-000-005 - Gasket, Installed P/N E4A-00-000-102 - O-Ring Cylinder Head Cover, Installed P/N OR_6x2-FPM75 - O-Ring 6x2, Installed P/N AEP-00361 - Restrictor for MSB-E4A Austro, Installed P/N E4A-23-30B-000 - Assy, Camshaft Exhaust, Installed P/N E4A-76-400-401 - Sealing Ring Rev/Lot: RW2000392-1 Locknut Rev/Lot: RC2103015, Installed (2) P/N DIN7603-A12X16-AL - 12 x 16 O-Ring Rev/Lot: RC1501398, Installed P/N E4A-23-40B-5 FPM75, Installed (2) P/N OR_8X1-FPM75 - O-Ring, Installed (4) P/N E4A-03-000-201 - Screw, Installed (4) P/N E4A-04-000-001 - Washer Rev/Lot: RC2200031, Installed P/N OR_63.17X2.62-FPM75 - O-Ring, Installed (2) P/N DIN6921-M6X16-8.8 - DIN6921-M6X16-8.8 Gasket Rev/Lot: RC2202330, Installed P/N E4A-95-R15-000 - Repair Kit CAS1-CAS2 cable, Installed (4) P/N E4A-04-000-805 - Spring Washer Rev/Lot: RC2200031, Installed P/N OR_63.17X2.62-FPM75 - O-Ring, Installed (2) P/N DIN5401-10-G20 - Ball, 10mm G20, Installed P/N DIN7603-A10x13.5-AL - 10 x 13.5 Washer, Installed P/N E4A-01-000-409 - CYLINDER HEAD GASKET, Installed (2) P/N E4A-04-000-304 - Conical Washer Rev/Lot: RC2200031, Installed (7) P/N 5W30LT - Aeroshell, Installed P/N HU615/3x - Oil filter, Installed P/N WK72 Fuel filter, Installed (4) P/N E4A-03-000-801 - Austro Engine Gasket, Installed P/N E4A-00-M02-BHY - Cylinder Head Assembly, Installed AEP-00391-C-201 - AEP-00391-C-201.

With respect to this work performed at Take Flight Aviation, LLC., this engine (R/H) is approved for return to service.

James T. Markey IA AP3166872IA



Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

N32GH
Tach: 694.2

Austro, E4 SERIES, S/N: E4P-C-00040

September 27, 2024

Drained oil, removed filter and replaced with new. Installed 7 liters of Aeroshell 5W-30 Ultra diesel as required. Installed (7) P/N 5W30LT - Aeroshell, Installed P/N HU615/3x - Oil filter.

Run up and leak check satisfactory

James T. Markey A&P 3166872

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Take Flight Aviation LLC - 49 Hangar Road - Montgomery, NY 12549 - 8454574188

Austro E4P-C, S/N: E4P-C-00040

N32GH
Tach: 718.4

May 28, 2025
Pete J.

1. Performed Annual Inspection I/A/W 14 CFR part 43 Appendix D using Diamond DA62 AMM and Austro Engine Maintenance Manual as references.
2. Engine ground run performed pre-inspection and engine data downloaded.
3. Oil change performed: Drained oil and removed oil filter. Inspected oil filter for contamination with no defects noted. Installed, torqued, and safety wired new oil filter as required. Engine serviced with oil as required. Installed P/N E4A-52-000 - kit-100 hour, Installed (7) P/N 5W30LT - Aeroshell, Installed P/N Blackstone Kit - Oil Analysis, Installed (2) P/N E4A-70-000-826 - Sealing Ring.
4. Removed and replaced fuel filter with new filter p/n: WK724/3.
5. Gear box oil filters removed and inspected for particles, none found. Gear box oil drained and sampled, no particles found on magnetic drain plug. Reinstalled filter and drain plug. Filled gear box with 2.3L of Shell Spiral S6-GXME 75W-80 oil. Installed (2 gal) P/N SPIRAX-S6-GXME75W - Gearbox Oil.
6. Visually inspected alternator, engine wiring harness and sensors, rear belt drive system, cylinder head drain, full fuel system, waste gate controller, exhaust system, and engine breather line. No defects noted.
7. Cooling system inspected. Coolant mixture ratio tested good. Verified proper operation of coolant tank pressure relief valve. Ops check good. Installed P/N Zerex-G48 - Zerex G48.
8. Alternate air and cabin heat systems both inspected and verified for proper operation.
9. Air intake and turbo charging system inspected. Removed, cleaned, serviced and reinstalled K&N air filter assembly. V-Band clamp on turbo charger inspected for defects, none found.
10. Inspected engine mounts for cracks, deterioration, or loose hardware.
11. Performed post-maintenance engine ground run. Performed leak check, none found. Downloaded EECU engine data.
12. All routine service items performed.
13. All applicable AD's complied with thru this date.
14. Adjusted fitment of TKS line on RH engine at propeller hub to prevent chafing and re-safety wired as required.

I certify that this engine (R/H) has been inspected in accordance with an Annual Inspection, and that this engine has been determined airworthy and is approved for return to service.

James T. Markey IA 3166872