AIRCRAFT
TECHNICAL RECORD

Section 3. ENGINE LOG

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Engine Log Book

Motor Logbuch

Austro Engine

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Baumuster: Type of engine:	E4	Baureihe: Model:	E4P	Motor - Nr.: Engine serial no:	E4P-C-00039

Hersteller:
Manufacturer: Austro Engine GmbH
A-2700 Wiener Neustadt, Rudolf-Diesel-Straße 11, Austria

Kennblatt: Data sheet:	EASA.E.200	Baujahr: Year of manufacture:	2016

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:

Austro Engine
W. Mandl
Cert. Sign.
A7210.0010

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Motor Ein- und Ausbau Übersicht / Engine installation record

Luftfahrzeug: Aircraft:		Datum: Date:		Betriebsstunden Engine hours:		Unterschrift & Lizenz-Nr.: Signature & License no.:
Kennz.: Registr.:	Type: Type:	Einbau: In:	Ausbau: Out:	Gesamt: TSN	Seit letzter GÜ.: TSO	
62-BLH	DA62	15.6.16	—	00:00	—	

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SN: E4P-C-00039

Status Service Bulletin (SB), Airworthiness Directives (AD) & Service Informations (SI) / Record of engine modification status

SB-No	Title	Status
MSB-E4-002/2	Configuration Specification of the E4 Engine	performed
MSB-E4-003/17	SW u. HW Versions of the E4 Engine	performed
MSB-E4-004	Long term conservation of E4 Engines	Only for Information
MSB-E4-006	Repair of sensor cable for camshaft sensor	Complied with at production
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-E4-014/2	Replacement of the fuel return line	Complied with at production
MSB-E4-017/1	Check/Exchange of timing chain	Only for Information
MSB-E4-020	Inspection of Gearbox Housing	Only for Information

AD-No	Title	Status
EASA AD 2013-0213	Replacement of waste gate controller (MSB-E4-007/6)	Complied with at production
EASA AD 2011-0039	Replacement of high pressure pump (MSB-E4-009/2)	Complied with at production
FAA AD 2011-18-19	Replacement of high pressure pump (MSB-E4-009/2)	Complied with at production
FAA AD 2014-08-10	Replacement of waste gate controller (MSB-E4-007/6)	Complied with at production
CAAC CAD2013-DA42-01R1	Replacement of high pressure pump (MSB-E4-009/2)	Complied with at production

SB-No	Title	Status
RSB-E4-016/1	Oil dip stick	Complied with at production
RSB-E4-018	Inspection of engine harness	Only for information
OSB-E4-019/2	Gearbox Oil Cooler	performed

SI-No	Title	Status
SI-E4-001/2	Life time and TBO extension	Only for information
SI-E4-002	Gearbox oil check procedure update	Only for information
SI-E4-003	Technical publication and reporting system of AE	Only for information
SI-E4-004	EECU venting element	Only for information

The engine modification status consists of the applicable revision of the Type Design Definition, the Build Manual and additional installed approved design changes:

Type Design Definition: E4.08.01 Rev. 11

Build Manual: E4.08.02 Rev. 16

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

Signature of Certifying Staff

Date: 28 APR 2016

Signature:

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ENGINE DATA

ENGINE LOG

1. Make:	Austro Engine GmbH
2. Model:	E4P-C
3. Specification:	E00081EN
4. Manufacturer's Serial Number:	E4P-C-00039
5. Date of Manufacture:	April 28, 2016
6. Aircraft Inspection Cycle:	

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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							

Diamond AIRCRAFT

AMO 161-93

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

Date: July 12, 2016

	Manufacturer	Model	SN	
Airframe	Diamond	DA 62	62 026	TSN 31.8 Hrs
LH Engine	Austro	E4P-C	E4P-C-00039	TSN 31.8 Hrs

- Engine Model: E4P-C, SN: E4P-C-00039 installed on aircraft DA 62 SN: 62 02, Left
- Total time brought forward: 31.8 Hrs
- EECU software installed: VC33_2P_05_18_pre1
- 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 _____ Lic or ACA: DA RO6

9-30-16 N32GH DA62 S/N 62.026

Austro E4P-C L/H Engine S/N E4P-C-00039 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 L/H Engine S/N E4P-C-00039 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

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

Diamond

Work Order #: SO 071626 / SO 071667

DIAMOND AIRCRAFT INDUSTRIES INC.
D.O.T. APPROVED MAINTENANCE ORGANIZATION
#161-83

Registration:	**N32GH**	**A/C Serial Number:**	**62.026**
L/H Engine Serial Number:	E4P-C-00039		
R/H Engine Serial Number:	E4P-C-00040		
L/H Prop Serial Number:	160135		
R/H Prop Serial Number:	160137		

TTSN Airframe:	**119.6 hrs**
TTSN L/H Engine:	119.6 hrs
TTSN R/H Engine:	119.6 hrs
TTSN L/H Prop:	119.6 hrs
TTSN R/H Prop:	119.6 hrs

LH Engine: Ser. No. E4P-C-00039.

- 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.
- LH Engine mount changed (FWD LH)
- 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 C/W
- 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-Clamps replaced with new
- DAI RSB62-013 – improved Alternator mounting C/W
- **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 in accordance with the applicable Standard of Airworthiness.

Inspector

ACA

NOV 0 8 2017
date

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NAME/ SIGNATURE	LICENCE: AME or AMO/ACA

DIAMOND AIRCRAFT INDUSTRIES INC.
D.O.T. APPROVED MAINTENANCE ORGANIZATION
8161-93

Diamond

Work Order #: ISO 671626 / ISO 671627

Registration: N32GH — A/C Serial Number: 62.026 — TTSN Airframe: 122.1 hrs
LH Engine Serial Number: E4P-C-00039 — TTSN L/H Engine: 122.1 hrs
R/H Engine Serial Number: E4P-C-00040 — TTSN R/H Engine: 122.1 hrs
LH Prop Serial Number: 160135 — TTSN L/H Prop: 122.1 hrs
RH Prop Serial Number: 160137 — TTSN R/H Prop: 122.1 hrs

Following Non-Routine Maintenance Performed: LH Engine

- MSB E4-022 / 1, waste gate controller
  - Removed Waste Gate controller and replaced with new
  - PN: E4A-41-120-000, rev 080
- LH Engine, banjo fitting at Turbo Charger Oil Drain line, replaced
  - PN: DIN 7603-A14X18AL
- LH Engine , RH forward engine mount replaced
  - PN: D64-7126-14-71

The work described above was accomplished in accordance with the applicable Standard of Airworthiness.

DIAMOND AIRCRAFT INDUSTRIES INC. ACA 01 AMO 161-93

Inspector

NOV 17 2017
date

6-27-18 N32GH DA62 S/N 62.026

Austro E4P-C L/H Engine S/N E4P-C-00039 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

Michael Cingari A&P 2631255 IA

Registration	N32GH	Date	October 24, 2018
Make	Austro	TIS	184.2
Model	E4P-C	TT Engine	184.2
Serial No.	E4P-C-00039		
Invoice No.	26572		
	CRS# XGKR718T		

ALPINE AVIATION

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

Description of Inspections, Tests, Repairs, and Alterations.

1 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.

2 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

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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
Make	Austro
Model	E4P-C
Serial No.	E4P-C-00039
Invoice No.	26877
	CRS# XGKR718T

ALPINE AVIATION

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

Date February 7, 2019
TIS
TT Engine

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 L/H Shock Mount w/ new p/n D64-7126-14-70.
6. Serviced Engine Coolant to correct level.
7. Removed, cleaned, and reinstalled Engine Breather Adaptor.
8. Replaced Coolant Level Sensor w/ new p/n D4D-9075-26-26.
9. C/W **AD 2018-18-02** Failure of Engine Timing Chain by installing TR-MÄM-62-240 in AFM.
10. 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 Serge Bu

CRS# XGKR718T

N32GH
Austro E4P-C
Serial No. E4P-C-0039

AERO WORKS dba
1901 Embarcadero Rd. Executive Hangar One, Palo Alto, CA 94303
Tel. (650) 565-0063

10/15/2019
Tach: 317.5
TTA/TTE: 317.5

Left 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 A&P 2806332 IA

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

LEFT ENGINE LOG ENTRY

1. Complied with all 300 hour left 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

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NAME/ SIGNATURE | LICENCE: AME or AMO/ACA

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 367.3 ACTT 367.3 W/O 6314 3/2/20
MODEL E4P-C S/N E4P-C-0039 TSN 367.3

LEFT 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-left engine EECU readouts.
3. Complied with 100 hour left engine oil and oil filter change. Removed oil sample. Inspected the removed oil filter for contaminants. Installed new 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 left engine air filter. Installed new air filter P/N RU-1620.

LEFT ENGINE LOG ENTRY CONTINUED

N32GH S/N 62.026 HOBBS 367.3 ACTT 367.3 W/O 6314 3/2/20
MODEL E4P-C S/N E4P-C-0039 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-left engine cooling system; 12 month / 100 hour inspect-left engine oil separator breather lines; 12 month / 100 hour inspect-left engine harnesses and sensors; 12 month / 100 hour inspect-left engine zonal inspection; 12 month / 100 hour inspect-left engine wastegate controller; 12 month / 100 hour inspect-left engine exhaust system; 12 month / 100 hour inspect-left engine fuel system; 12 month / 100 hour inspect-left cylinder head drains; 12 month / 100 hour replace-left engine fuel filter.

----------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

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Advancetech Aircraft Maintenance, Inc.
1605 Moffett Street, Salinas, CA 93905
(831) 422-2142 FAX (831) 422-3221
FAA Repair Station BL3R401L

WORK PERFORMED (REPLACEMENT)

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

LEFT ENGINE LOG ENTRY

1. Replaced the left engine coolant reservoir pressure relief valve assembly. Removed left engine upper cowlings 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

Advancetech Aircraft Maintenance, Inc.
1605 Moffett Street
Salinas Municipal Airport
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-0039 TSN 455.4

LEFT 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 left 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 left engine oil and oil filter change. Removed oil sample. Inspected the removed oil filter as required for contaminants. Installed new filter P/N E4A-52-100-802 and serviced the engine with Aeroshell Ultra Diesel 5W-30 engine oil. Ran engine and leak checked.

LEFT ENGINE LOG ENTRY CONTINUED

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LICENCE: AME or AMO/ACA

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-left engine cooling system; 100 hour / 12 month inspect-left engine oil separator breather line; 100 hour / 12 month inspect-left engine harnesses and sensors; 100 hour / 12 month inspect-left engine zonal inspections; 100 hour / 12 month inspect-left engine wastegate controller; 100 hour / 12 month inspect-left engine exhaust system; 100 hour / 12 month inspect-left engine cylinder head drains; 100 hour / 12 month replace-left engine fuel filter.

----------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

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-00039 TSN 483.3

LEFT ENGINE LOG ENTRY

1. Complied with a Diamond Model DA62 Annual Inspection in accordance with the Diamond Model DA62 Maintenance Manual.
2. Serviced the left 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

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Advancetech Aircraft Maintenance, Inc.
1605 Moffett Street, Salinas, CA 93905
(831) 422-2142 FAX (831) 422-3221
FAA Repair Station BL3R401L

LICENCE: AMEor AMO/ACA

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

LEFT ENGINE LOG ENTRY

1. 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

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-00039 TSN 549.9

LEFT 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 left 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.

LEFT ENGINE LOG ENTRY CONTINUED

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

N32GH S/N 62.026 ACTT 549.9 W/O 6470
MODEL E4P-C S/N E4P-C-00039 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 - left engine alternator; 300 hour inspect - left engine cylinder heads; 300 hour inspect - left engine injector covers; 300 hour replace - gearbox oil and filter.
6. Complied with 300 hour inspection of the left engine two mass flywheel in accordance with the Austro Model E4P Maintenance Manual.
7. Complied with 600 hour replacement of the left engine two mass flywheel and hub in accordance with the Austro Model E4P Maintenance Manual.
8. Complied with 600 hour replacement of the left engine coolant in accordance with the Austro Model E4P Maintenance Manual.
9. Complied with 600 hour replacement of the left engine wastegate circlip in accordance with the Austro Model E4P Maintenance Manual.
10. Complied with 5 year replacement of the left 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 are on file with this agency under Work Order # **6470**, dated **9/1/21**.
Signed
FAA Approved Repair Station BL3R401L

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 ACTT 549.9 W/O 6470B 10/10/21
MODEL E4P-C S/N E4P-C-0039 TSN 549.9

LEFT ENGINE LOG ENTRY

1. Replaced the left engine water pump which was leaking. Installed new water pump P/N E4A-60-000-000 S/N RC2105383(1). Reassembled the left engine and prepared aircraft for bleeding of the coolant system. Bled the left and right engine coolant systems in accordance with the Diamond Model DA62 Maintenance Manual. Installed engine cowlings and performed left and right engine ground performance checks. Leak check of the left engine water pump was satisfactory.

LEFT ENGINE LOG ENTRY CONTINUED

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N32GH S/N 62.026 ACTT 549.9 W/O 6470B 10/10/21 NAME/ LICENCE:
MODEL E4P-C S/N E4P-C-0039 TSN 549.9 AMEor AMO/ACA

2. Troubleshot the left hand engine propeller governing system. Performed adjustments as required on the left engine propeller governor and ran the engines with no change in left engine operation. Swapped the propeller governors from left to right and right to left with problem following the governor previously installed on the left engine. Replaced the propeller governor now installed on the right engine. Installed overhauled propeller governor P/N P-877-16 S/N 16G562-H/G. Overhaul was performed and dual release certificate issued by DE.145.0115. Operational checks of the left and right hand were satisfactory.

----------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 # **6470B**, dated **10/10/21**.

Signed _____

FAA Approved Repair Station BL3R401L

Advancetech Aircraft Maintenance, Inc.
1605 Moffett Street, Salinas, CA 93905
(831) 422-2142 FAX (831) 422-3221

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-00039 TSN 549.9

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

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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. No further action required.
5. Complied with 600 hour replacement of the left 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 20-10-26-02-00626.

----------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

2

Registration #: N32GH
Manufacturer: Austro Engines
Serial No: E4P-C-00039
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: Derek C. Nolte Work Order: 535

AP Number: 3352118JA

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Austro E4P-C, E4P-C, S/N: E4P-C-00039

March 13, 2024

GH
n: 663.7

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 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.
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.
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 L/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.

ify that this engine (L/H) has been inspected in accordance with an Annual Inspection, and that this engine has been determined airworthy s approved for return to service.

– T. Markey IA AP3166872IA

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

N32GH
Tach: 663.7

Austro, E4 SERIES, S/N: E4P-C-00039

March 14, 2024

Both R/H and L/H engines borescoped during per customer request as required in order to inspect for signs of head gasket damage. Bores... 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, L/H engine head gasket assembly removed and replaced with new assembly as required IAW AHY to B... conversion. Aircraft ground-run as required in order to test engines. L/H Engine inspected for leaks or failures with no issues noted. Aircraft ... flown IAW MM to flight-test engine operations. Aircraft flight-test indicated no issues. Reinspected L/H engine after test-flight for leaks or fail... as required with no issues noted. All ops. checked good with no defects noted or observed, head gasket replacement / conversion success... Installed P/N E4A-00-M02-BHY - Cylinder Head Assembly, Installed P/N HU615/3x - Oil filter, Installed (7) P/N 5W30LT - Aeroshell, Instal... P/N WK724-3 - Fuel filter, Installed (4) P/N E4A-03-000-801 - Austro Engine Gasket, Installed (10) P/N E4A-01-000-201 - Cylinder Head Sc... Installed P/N E4A-41-300-801 - 24V Change-Over Valve Rev/Lot: AA2, Installed P/N E4A-04-000-002 - Exhaust Gasket Rev/Lot: RC210... Installed (6) P/N DIN6797-A6, 4-A2 - Toothed Lock Washer, Installed P/N E4A-01-000-401 - Gasket, Installed P/N E4A-01-000-402 - Gas... Installed (6) P/N Din6797-6.4-A - Din6797-6.4-A, Installed (3) P/N ISO4017-M8X20-10.9 - Bolt, Hex Head M8x20, Installed (3) P/N NL8 - ... Lock M8/8, 7/13, 5/2, Installed P/N E4A-33-000-804 - E4A-33-000-804, Installed (4) P/N DIN7603-12x16x2.0 - Ring Seal Rev/Lot: RC190... Installed (4) P/N OR_7.8X3.2-ACM70 - O-Ring Rev/Lot: RC2105515, Installed P/N E4A-05-000-104 - Engine Gasket Rev/Lot: RC2202... Installed P/N E4A-56-100-000 - E4A-56-100-000, Installed P/N E4A-55-100-000 - E4A-55-100-000, Installed P/N AEP-00391-C-301 - ... 00391-C-301, Installed (4) P/N DIN7603-14X18X2.0 - Copper Gasket, Installed P/N E4A-04-000-005 - Gasket, Installed P/N E4A-15-000... - O-Ring Cylinder Head Cover, Installed P/N OR_6x2-FPM75 - O-RIng 6x2, Installed P/N AEP-00361 - Restrictor for MSB-E4-029/2 Au... Installed P/N E4A-23-30B-000 - Assy, Camshaft Exhaust, Installed P/N E4A-76-400-401 - Sealing Ring Rev/Lot: RW2000392-10000, Inst... P/N E4A-14-100-301 - E4A-14-100-301, Installed P/N E4A-32-100-000 - Oil Drain Line, Installed (12) P/N ISO7044-M8-8-Cu - M8 Loc... Rev/Lot: RC2105742, Installed (2) P/N DIN7603-A12X16-AL - 12 x 16 O-Ring Rev/Lot: RC2101033, Installed P/N E4A-23-40B-000 - ... Camshaft Intake, Installed P/N DIN3771-9X1.8-FPM75 - O-Ring 9x1, 8 FPM75, Installed (2) P/N DIN3771-18X1.5-FPM75 - O-Ring 18... 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 - Mes... Gasket Rev/Lot: RC2202330, Installed P/N E4A-95-R15-000 - Repair Kit CAS1-CAS2 cable, Installed (4) P/N E4A-04-000-805 - Sch... Washer Rev/Lot: RC2105504, Installed P/N OR_63.17X2.62-FPM75 - O-Ring, Installed (2) P/N DIN6921-M6X16-8.8 - DIN6921-M6X16... Installed (2) P/N E4A-41-300-803 - 1-Ohr-Klemme 10.3 - 12.3 mm- Clamp, Installed (4) P/N DIN5401-10-G20 - Ball, 10mm G20, Installe... P/N DIN7603-A10x13.5-AL - 10 x 13.5 Washer, Installed P/N E4A-01-000-409 - CYLINDER HEAD GASKET, Installed P/N E4A-04-000-... Exhaust Gasket Rev/Lot: RC2107518, Installed (4) P/N E4A-04-000-806 - M8 x 40 Bolt Rev/Lot: RC2200369, Installed (4) P/N E4A-04-00... - *Conical Washer Rev/Lot: RC2200031.*

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

James T. Markey IA AP3166872IA

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Austro E4P-C, E4P-C, S/N: E4P-C-00039

~~May 28~~, 2025
June 2

N32GH
Tach: 718.4

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. Removed LH turbo oil return line gasket and replaced with new as required. Installed P/N E4A-05-000-104 - Engine Gasket Rev/Lot: RC2101033.

I certify that this engine (L/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 James T Markey

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