

ENGINE DATA

1. Make

Austro Engine GmbH

2. Model

E4P-C

3. Specification

E00081EN

4. Manufacturer's Serial
Number

E4P-C-00186

5. Date of Manufacture

June 2018



Section 3A: Engine Service and Maintenance Log

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



Registration:
Airframe Total Time:
Engine RH SN:

N149DA
29.5
E4P-C-00186

DIAMOND AIRCRAFT IND.
D.O.T. APPROVED MAINTENANCE
ORGANIZATION 161-93

AC Serial Number: 62.092
Work Order: SO 071959
Engine RH TT: 29.5

- Engine E4P, S/N: E4P-C-00186, installed on Aircraft DA 62 S/N: 62.092, RIGHT
- Total Time Engine brought forward: 29.5 hrs
- EECU software installed: VC33_2P_06_21
- Engine and documentation inspected for Major Mod's and/or STC's incorporated, none found.
- All applicable Airworthiness Directives, Service Bulletins complied with.
- AWD BI-weekly checked thru 2018-18
- Refer to Austro MM E4.08.04, latest revision for component inspection/exchange intervals
- Next inspection due: 100 hr inspection

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness



SEP 17 2018

Date: _____



Registration:
Airframe Total Time:
Engine RH SN:

N149DA
29.5
E4P-C-00186

DIAMOND AIRCRAFT IND.
D.O.T. APPROVED MAINTENANCE
ORGANIZATION 161-93

AC Serial Number: 62.092
Work Order: SO 071959
Engine RH TT: 29.5

- Installed propeller unfeathering accumulators on LH and RH engines per Diamond approved Drawing No. D67-6116-00-00 Rev.A. & DA62 AMM Ch.61-20-00. OAM 62-030 (a) (Operation without Unfeathering Accumulators) no longer applicable to this Aircraft.
- Installed accumulator PN: P-893-3 SN: 18A120 on RH engine. Serviced with nitrogen per DA62 AMM Ch. 61-20-00.
- RH gear box oil level adjusted following accumulator install.
- Ground runs and feather checks satisfactory.

The Maintenance Described has been performed IAW the Applicable Standard of Airworthiness



SEP 25 2018

Date: _____

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Section 3A: Engine Service and Maintenance Log

DATE	TIME	TIME		CYCLES	
		HOURS	MIN	SAE	TOTAL
1	1				
BROUGHT FORWARD					

SA
SouthTecAviation
Office: 704-431-6862

Date: March 5, 2019 | Right Engine | Austro E4P-C | S/N: E4P-C-00186 | Reg: N149DA
Tach: 99.4 hrs. TTE: 99.4 hrs.

100 Hour inspection completed this date in accordance with Diamond Aircraft MM and Austro MM. **NO AD'S DUE**. Serviced engine with 100 hour Austro Engine (7) items of Liqui Moly Leichtlauf High Tech SAE 5W-40. Drained and refilled with (P/N) WK724. 3. Replaced gearbox oil filter O-ring (P/N) 085771-2623 FPM F3. Oil sample sent to Blackstone Laboratories for analysis. Operational and leak check performed, no leaks found at this time.

I certify that this engine has been inspected in accordance with a 100 hour inspection and was determined to be in an airworthy condition.

Christian Hedrick
Christian Hedrick

DESCRIPTION OF WORK DONE
(INSPECTION, REPAIRS, SERVICING)

3330 Airport Loop Road
Salisbury, NC 28147
info@southtecaviation.com

A&P 3740465 IA

SA
SouthTecAviation
Office: 704-431-6862

Date: AUGUST 1, 2019 | Right Engine | Austro E4P-C | S/N: E4P-C-00186
Tach: 180.7 hrs. TTE: 180.7 hrs.

ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT INDUSTRIES GMBH DMS AMM AUSTRÖ ENGINE REPAIR MANUAL. **AD INFORMATION IN FIGURE 1 TO (5) (6) OF THIS AD TO LIMIT THE USE OF A FILTER AND INSPECTED FOR METAL, NONE NOTED.** SERVICED ENGINE WITH LIQUI MOLY LEICHTLAUF HIGH TECH SAE 5W-40. COLLECTED OIL SAMPLE FOR ANALYSIS. DRAINED GEARBOX OIL, INSPECTED MAGNETIC PLUG, NO FAULTS NOTED. FILTERED OIL AND REFILLED GEARBOX. PRESSURE TESTED COOLANT SYSTEM AND REFILLED WITH COOLANT. DISASSEMBLED ENGINE COMBUSTION CHAMBER AND REFILLED WITH OIL. MAINTENANCE COMPLETED IN ACCORDANCE WITH DIAMOND AIRCRAFT INDUSTRIES GMBH DMS AMM AND AUSTRÖ ENGINE MM. I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

Christian Hedrick
CHRISTIAN HEDRICK

3330 Airport Loop Road
Salisbury, NC 28147
info@southtecaviation.com

A&P 3740465 IA

3330 AIRPORT LOOP
SALISBURY NC 28147
OFFICE: 704-431-6862
INFO@SOUTHTECAVIATION.COM

SA
SouthTecAviation

DATE: JULY 10, 2020 | RIGHT ENGINE | AUSTRÖ E4P-C | S/N: E4P-C-00186 | REG: N149DA
TACH: 267.1 HRS. TTE: 267.1 HRS.

ANNUAL INSPECTION COMPLETED THIS DATE IN ACCORDANCE WITH DIAMOND AIRCRAFT INDUSTRIES GMBH DMS AMM AUSTRÖ ENGINE REPAIR MANUAL. **NO AD'S DUE AT THIS TIME.**
NO AD'S DUE AT THIS TIME.
DRAINED OIL AND FILLED WITH LIQUI MOLY LEICHTLAUF HIGH TECH SAE 5W-40.
CUT OIL FILTER AND INSPECTED FOR METAL, NONE NOTED.
REPLACED OIL FILTER, P/N (E4A-52-300-KIT).
COLLECTED OIL SAMPLE FOR ANALYSIS TO BE COMPLETED BY BLACKSTONE LABORATORIES.
DRAINED GEARBOX OIL. INSPECTED MAGNETIC PLUG, NO FAULTS NOTED.
REPLACED GEARBOX OIL WITH SPIRAX-S6-GXMET5W-80.
REPLACED GEARBOX FILTER, P/N (E4A-70-000-806).
PRESSURE TESTED COOLANT SYSTEM.
GROUND RAN ENGINE, NO FAULTS NOTED.

I CERTIFY THAT THIS ENGINE HAS BEEN INSPECTED IN ACCORDANCE WITH AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AN AIRWORTHY CONDITION.

Christian Hedrick
CHRISTIAN HEDRICK

A&P 3740465 IA

Blue Line Technical Services, LLC 3149 B Swift Creek Rd. Smithfield NC, 27577			RIGHT Engine	
Make: Diamond	Model: DA62	Serial No: 62.092	Tach:	283.8
Reg. No: N149DA	Eng Model: E4P-C	Eng Serial: E4P-C-00186	TT Adjust:	0
WORK PERFORMED:	SNEW	283.8	Total Time:	283.8
Updated ECU software to latest version E4CT_00_VC33_2P_06_24.				
Robert T Robinson III A&P 4074592		12/21/2020		
Name/ Certificate No.		Signature		Date

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Section 3A: Engine Service and Maintenance Log

DATE / /	TIME RUN HOURS MIN	TIME BASIC ENGINE		CYCLES		TOTAL
		HOURS	MIN	REV	2-4 CYCLES	
BROUGHT FORWARD						



Registration: N149DA Model: DA-62 Serial: 62-092 TACH: 579.2 Date: 5/1/2022
 Right Engine Austro E4P-C S/N: E4P-C-00186 TTE: 579.2

- 100 hour completed this date in accordance with Diamond Aircraft DA62 AMM and Austro MM
1. Drained oil, collected oil sample and serviced with Aeroshell DIESEL ULTRA. Cut open oil filter and inspected for metal, none noted. Installed new oil filter P/N E4A-52-100-802. Drained gearbox oil and inspected gearbox oil filter and magnetic plug for metal, none noted. Serviced gearbox with Shell Spirax S6 GXME 75W-80.
2. Serviced coolant with G48. Pressure tested coolant system and found no leaks or discrepancies.
3. Replaced scab tube clamp that connects intake to turbo with new P/N TOSKO_60-80_9_W1.
4. Performed 600-hour component time limit replacement of high-pressure fuel pump. Removed P/N E4A-30-200-000 bs.010 S/N 12-03-23-03-00029 and replaced with new P/N E4A-30-200-000 bs.AA.1 S/N 21-09-06-02-02464. New seals were used for fits P/N DIN7603-12X2.0 and DIN7603-A12X16-AL. Ground run and no leaks noted. Next due at 1179.2 TTE.

All AD's complied with through 2022-07.
 I certify that this engine has been inspected in accordance with a 100 inspection as described in CFR 14 Part 43 Appendix D and has been found to be in an airworthy condition at this time.

Darrah Bosse A&P 4439862

GALVIN FLYING | 7001 PERIMETER ROAD S, SEATTLE, WA 98108 | 206.763.9706 | SHOP@GALVINFLYING.COM



Registration: N149DA Model: DA-62 Serial: 62-092 TACH: 629.4 Date: 5/15/2022
 Right Engine Austro E4P-C S/N: E4P-C-00186 TTE: 629.4

- Performed 600 hour time limit replacement of two main fly-wheel and hub. Removed fly-wheel P/N: E4A-73-300-000_AB.1 S/N: 02519, hub P/N: E4A-73-000-203-030 and replaced with fly-wheel P/N: E4A-73-300-000_AC.1 S/N 05254, hub P/N: E4A-73-000-203-AA.2 S/N: 05254. All work performed referencing Austro maintenance manual 85-10-00 paragraph 5. Next due at tach: 1229.4
- Performed 600 hour time limit replacement of Circlips P/N #E4A-41-100-801 with new P/N: E4A-41-100-801 to the wastegate pin. In accordance with Diamond MME 81-12. Next due at tach: 1229.4
- Performed 600 hour time limit replacement of coolant. Drained engine coolant and serviced with Zerex G48 referencing Diamond DA62 maintenance manual. Next due at tach: 1229.4

Darrah Bosse A&P 4439862

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Registration: N149DA Model: DA-62 Serial: 62-092 TACH: 692.3 Date: 6/27/2022
 Right Engine Austro E4P-C S/N: E4P-C-00186 TTE: 692.3

1. 100 hour completed this date in accordance with Diamond Aircraft DA62 AMM and Austro MM
2. Drained oil, collected oil sample and serviced with Aeroshell DIESEL ULTRA. Cut open oil filter and inspected for metal, none noted. Installed new oil filter P/N E4A-52-100-802. Drained gearbox oil and inspected gearbox oil filter and magnetic plug for metal, none noted. Serviced gearbox with Shell Spirax S6 GXME 75W-80.
3. Serviced coolant with G48. Pressure tested coolant system and found no leaks or discrepancies.
4. Performed 600-hour component time limit replacement of high-pressure fuel pump. Removed P/N E4A-30-200-000 bs.010 S/N 12-03-23-03-00029 and replaced with new P/N E4A-30-200-000 bs.AA.1 S/N 21-09-06-02-02464. New seals were used for fits P/N DIN7603-12X2.0 and DIN7603-A12X16-AL. Ground run and no leaks noted. Next due at 1179.2 TTE.

Darrah Bosse A&P 4439862

GALVIN FLYING | 7001 PERIMETER ROAD S, SEATTLE, WA 98108 | 206.763.9706 | SHOP@GALVINFLYING.COM



Registration: N149DA Model: DA-62 Serial: 62-092 TACH: 701.0 Date: 7/5/2022
 Right Engine Austro E4P-C S/N: E4P-C-00186 TTE: 701.0

1. Found engine oil to be above the MAX level line. Drained oil to get it within limits.

Darrah Bosse A&P 4439862

GALVIN FLYING | 7001 PERIMETER ROAD S, SEATTLE, WA 98108 | 206.763.9706 | SHOP@GALVINFLYING.COM



Registration: N149DA Make: Diamond Model: DA62 Serial: 62-092 Tach: 731.1 Date: 09/14/2022
 Right Engine Austro Engine Model: E4P-C Serial: E4P-C-00186 ENGTT: 731.1

1. Updated AD compliance list through 2022-18.
2. Serviced engine and gearbox per Austro Engine E4P series 100hr requirements and guidelines. Serviced Engine with 7.5 liters of Aeroshell Diesel Ultra Oil. Serviced Gearbox with Shell Spirax S6 GXME 75W-80 oil. Performed work by Seungwon Oh, Henry Dunn, and Gabrielle Gonzales using Austro Engine 100hr kit, PN E4A-52-000-KIT.
3. Performed coolant system pressure test, no discrepancy noted. Work performed by Seungwon Oh.
4. Performed waste gate controller adjustment setting test, no discrepancy noted. Reconnected hose with serviceable clamp. Work done in ref. to Austro Engine E4P series MM. Work performed by Seungwon Oh.
5. Removed and replaced sealing ring on turbocharger oil return pipe upper banjo bolt with new PN DIN-7603-14x18x2.0 and torqued and safetied ref. Austro E4P series MM. Performed leak check, no leaks noted at this time. Work performed by Seungwon Oh.
6. Removed breather tube and drain adapter and cleaned as necessary ref. UA62 AMM. Work performed by Seungwon Oh.

I certify that this engine has been inspected in accordance with an Annual inspection as described in CFR 14 Part 43 Appendix D and has been found to be in an airworthy condition at this time.

GALVIN FLYING | 7001 PERIMETER ROAD S, SEATTLE, WA 98108 | 206.763.9706 | SHOP@GALVINFLYING.COM
 Sangnyoung Lee AP38833621A

CYCLES

GALVIN FLYIN
TAKE FLIGHT. OPPORTUNITIES FOR
Diamond Model

Registration: N149DA Make: Diamond Model: DA52 Serial: 62-092 Tach: 825 Date: 02/06/2021
RIGHT ENG Make: Austro Engine Model: EAP-5C Serial: 62-092 Tach: 825 Date: 02/06/2021
 Updated AD compliance list through 2022-27.
 Serviced engine and gearbox for Austro Engine EAP series 100c requirement.
 Item of Aeroshell Diesel Oiltra Oil. Serviced Gearbox with 100c requirement.
 Robert Grogan, Alberto Vazquez, Darrah Bissell with 100c requirement.
 KIT.
 Performed coolant bleed.

1. Updated AD compliance line through 2022-27.
2. Serviced engine and gearbox per AeroStar Engine Model EAP-6 Serial: 62-092 Tach: 819 Date: 04/06/2023
Items of AeroStar Diesel Engine Model EAP-6 Serial: 62-092 Tach: 819 Date: 04/06/2023
Robert Grosden, Alberto Vazquez, Darrah Bouse EAP Series 100HR requirements and guidelines, Serviced Engine with a
KIT.
3. Performed coolant system pressure test, no discrepancy noted. Work performed by Fidel Chivungu.
4. Performed waste gear oil controller adjustment setting test, no discrepancy noted. Work performed by Fidel Chivungu.
5. Removed old propeller governor (P-877-516) EAP Series 100HR and replaced with new one (P-877-516) EAP Series 100HR.
6. Serviced engine coolant with Zorex G48 and torqued and safetied per AeroStar Engine EAP CNA and EAP series MMA
Work performed by Fidel Chivungu.

Certify that this engine has been inspected in accordance with an Annual inspection as described in CFR 14 Part 43 Appendix D and has been found to be in an airworthy condition at this time.

GALVIN FLYING / 7001 PERIMETER ROAD S. E.
APPROVED BY: [Signature] DATE: 07-18-2019

GALVIN FLYING | 7001 PERIMETER ROAD S, SEATTLE, WA 98108 | Sangmiyoung Lee AP3283362JA
205W-BGALVIN01 TAG CODE



GALVIN FLYING
TAKE FLIGHT, OPPORTUNITIES FOR LIFE

Registration: N149DA Model: DA-62 Serial: 62.092 TACH: 826.6 Date: 1/9/2023

Serviced RH gear box with Spirax SG GXME 75W-80. No leaks noted at this time. All work performed per Austin maintenance manual.

GALVIN FLYING / 2001 / Darrah Bosse A&P 4439862

GALVIN FLYING / 7001 PERIMETER ROAD S, SEATTLE, WA 98108 / 206.763.9706 / SHIRLEY GALVIN FLYING (206)

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A5

NAME/ SIGNATURE

LICENCE:
AMEOT
AMO/ACA

GALVIN FLYING
TAKE FLIGHT. OPPORTUNITIES FOR LIFE
Cat. DA62 Serial: 62.092

TAKES FLIGHT, OPPORTUNITIES FOR LIFE

Registration: H149DA - Make: Diamond - Model: DA62 - Serial: 62-092 - Tach: 875 - Date: 04/12/2023
RIGHT ENG Make: Austro Engine - Model: EAP-C - Serial: EAP-C-00186 - ENGT#: 875

*Listed through 2023-08.

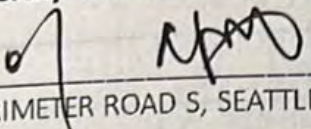
EAP series 300H requirements and guidelines. Serviced Engine

31MSE 25LW-80 oil. Performed w

- [illegible]

Sangmyoung Lee AP3883362IA
GALVIN FLYING | 7001 PERIMETER ROAD S, SEATTLE, WA 98108 | 206.763.9706 | SHOP@GALVINFLYING.COM

I certify that this engine has been inspected
and has been found to be in an airworthy condition at this time.


Sangmyoung Lee AP3883362IA
GALVIN FLYING | 7001 PERIMETER ROAD S, SEATTLE, WA 98108 | 206.763.9706 | SHOP@GALVINFLYING.COM

Date: 11/14/2023

Reg: N149DA

Tach: 969.0 SNEW 969.0

Airframe: DIAMOND AIRCRAFT IND GMBH DA 62 S/N: 62.092

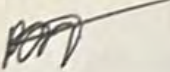
RIGHT Engine:

- Performed a 100hr/Annual inspection per Austro Chapter 05 checklist.
- ECU Data downloaded and sent to Austro.
- Complied with MANDATORY SERVICE BULLETIN NO. MSB 62-002 REV. 7 by installing Austro ECU Software Version VC33_2P_07_26.
- Drained all fluids from engine, sample obtained from engine oil.
- Serviced engine with 7 liters of Aeroshell diesel ultra.
- Replaced oil filter and o-rings with new E4A-52-300-KIT
- Inspected gearbox magnetic drain plug per chapter 85-10-00, no metal observed on plug.
- Serviced gearbox with 1.5l of Spirax S6 GXME 75W-80..
- Replaced V-Ribbed belt with P/N E4A-74-100-801.
- All work performed IAW Austro MM E4 Series Doc E4.08.04, Rev 31. Post mx engine runs and test flight revealed normal operations.

This aircraft and/or component(s) identified above was/were repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy in respect to the work performed, subsequently approved for return to service.

*I certify that this **ENGINE** has been inspected in accordance with an **annual** inspection and was determined to be in an airworthy condition.*

Brett Zefting

A&P3164534IA 



**ZEFTING
AVIATION**

Section 3A: Engine

Date: 04/22/2024
 Reg: N149DA
 Tach: 1067.8 AFTT: 1067.8

Airframe: DIAMOND AIRCRAFT IND GMBH DA 62 S/N: 62.092

RIGHT Engine: Austro E4P-C E4P-C-00186

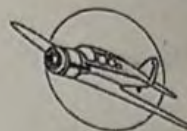
Performed a 100hr/Annual inspection per Austro Chapter 05 checklist.

- ECU Data downloaded and sent to Austro.
- Drained all fluids from engine, sample obtained from engine oil.
- Serviced engine with 7 liters of Aeroshell diesel ultra.
- Replaced oil filter and o-rings with new E4A-52-300-KIT
- Inspected gearbox magnetic drain plug per chapter 85-10-00, no metal observed on plug.
- Serviced gearbox with 1.5l of Spirax S6 GXME 75W-80.
- AD 24-05-01 N/A by engine S/N.
- AD 23-20-03 N/A by engine S/N.
- All work performed IAW Austro MM E4 Series Doc E4.08.04, Rev 31. Post mx engine runs and test flight revealed normal operations.

This aircraft and/or component(s) identified above was/were repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy in respect to the work performed, subsequently approved for return to service.

I certify that this **ENGINE** has been inspected in accordance with an **annual** inspection and was determined to be in an airworthy condition.

Brett Zefting
 A&P31645341A



ZEFTING
 AVIATION

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Section 3A: Engine

Date: 04/22/2024

Reg: N149DA

Tach: 1067.8 AFTT: 1067.8

Airframe: DIAMOND AIRCRAFT IND GMBH DA 62 S/N: 62.092

RIGHT Engine: Austro E4P-C E4P-C-00186

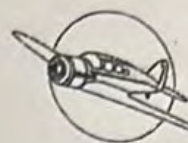
- Performed a 100hr/Annual inspection per Austro Chapter 05 checklist.
- ECU Data downloaded and sent to Austro.
- Drained all fluids from engine, sample obtained from engine oil.
- Serviced engine with 7 liters of Aeroshell diesel ultra.
- Replaced oil filter and o-rings with new E4A-52-300-KIT
- Inspected gearbox magnetic drain plug per chapter 85-10-00, no metal observed on plug.
- Serviced gearbox with 1.5l of Spirax S6 GXME 75W-80.
- AD 24-05-01 N/A by engine S/N.
- AD 23-20-03 N/A by engine S/N.
- All work performed IAW Austro MM E4 Series Doc E4.08.04, Rev 31. Post mx engine runs and test flight revealed normal operations.

This aircraft and/or component(s) identified above was/were repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy in respect to the work performed, subsequently approved for return to service.

I certify that this **ENGINE** has been inspected in accordance with an **annual** inspection and was determined to be in an airworthy condition.

Brett Zefting

A&P3164534IA



ZEFTING
AVIATION

Date: 06/17/2024

Reg: N149DA

Tach: 1108.5 AFTT: 1108.5

Airframe: DIAMOND AIRCRAFT IND GMBH DA 62 S/N: 62.092

RIGHT Engine: Austro E4P-C E4P-C-00186

- Pilot reported slight loss of power on climbout, right engine, when fuel pumps turned off.
- Performed data log download of right engine and confirmed slight decrease from normal fuel pressure during flight.
- Removed right wing fuel vent access panel and found aft vent tube may have been restricted; reinstalled fuel vent access panel while confirming proper alignment with boroscope.
- All work performed IAW Austro MM E4 Series Doc E4.08.04, Rev 31. Post mx engine runs and test flight revealed normal operations. Test flight included full power settings with manual pump switch off and forced time on ecu A and B.

This aircraft and/or component(s) identified above was/were repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy in respect to the work performed, subsequently approved for return to service.

Brett Zefting

A&P3164534



ZEFTING
AVIATION

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Section 3A: Engine Service and Maintenance Log

Date: 04/22/2024

Reg: N149DA

Tach: 1067.8 AFTT: 1067.8

Airframe: DIAMOND AIRCRAFT IND GMBH DA 62 S/N: 62.092

RIGHT Engine: Austro E4P-C E4P-C-00186

- Performed a 100hr/Annual inspection per Austro Chapter 05 checklist.
- ECU Data downloaded and sent to Austro.
- Drained all fluids from engine, sample obtained from engine oil.
- Serviced engine with 7 liters of Aeroshell diesel ultra.
- Replaced oil filter and o-rings with new E4A-52-300-KIT
- Inspected gearbox magnetic drain plug per chapter 85-10-00, no metal observed on plug.
- Serviced gearbox with 1.5l of Spirax S6 GXME 75W-80.
- AD 24-05-01 N/A by engine S/N.
- AD 23-20-03 N/A by engine S/N.
- All work performed IAW Austro MM E4 Series Doc E4.08.04, Rev 31. Post mx engine runs and test flight revealed normal operations.

This aircraft and/or component(s) identified above was/were repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy in respect to the work performed, subsequently approved for return to service.

I certify that this ENGINE has been inspected in accordance with an annual inspection and was determined to be in an airworthy condition.

Brett Zefting

A&P3164534IA



ZEFTING
AVIATION

Date: 06/17/2024

Reg: N149DA

Tach: 1108.5 AFTT: 1108.5

Airframe: DIAMOND AIRCRAFT IND GMBH DA 62 S/N: 62.092

RIGHT Engine: Austro E4P-C E4P-C-00186

- Pilot reported slight loss of power on climbout, right engine, when fuel pumps turned off.
- Performed data log download of right engine and confirmed slight decrease from normal fuel pressure during flight.
- Removed right wing fuel vent access panel and found aft vent tube may have been restricted; reinstalled fuel vent access panel while confirming proper alignment with boroscope.
- All work performed IAW Austro MM E4 Series Doc E4.08.04, Rev 31. Post mx engine runs and test flight revealed normal operations. Test flight included full power settings with manual pump switch off and forced time on ecu A and B.

This aircraft and/or component(s) identified above was/were repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy in respect to the work performed, subsequently approved for return to service.

Brett Zefting

A&P3164534



ZEFTING
AVIATION

Date: 07/01/2024

Reg: N149DA

Tach: 1120.6 AFTT: 1120.6

Airframe: DIAMOND AIRCRAFT IND GMBH DA 62 S/N: 62.092

RIGHT Engine: Austro E4P-C E4P-C-00186

- Pilot reported slight loss of power on climbout, right engine.
- Performed data log download of right engine and confirmed slight decrease from normal fuel pressure during flight.
- Data logs show similar pressure loss to the last event. Diamond recommends confirming no fuel contamination is present.
- Drained a sample from all sumps right side; all clean. Replaced fuel filter with new, some sediment found in old filter.
- All work performed IAW Austro MM E4 Series Doc E4.08.04, Rev 31. Post mx engine runs revealed normal operations, problem could not be replicated.

This aircraft and/or component(s) identified above was/were repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy in respect to the work performed, subsequently approved for return to service.

Brett Zefting

A&P3164534



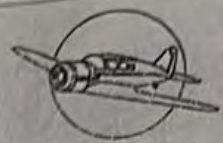
ZEFTING
AVIATION

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**ZEFTING
AVIATION**

Date: 07/22/2024
Reg: N149DA
Tach: 1126.0 AFTT: 1126.0
Airframe: DIAMOND AIRCRAFT IND GMBH DA 62 S/N: 62.092
RIGHT Engine: Austro E4P-C E4P-C-00186

- Right engine not making more than 90% power, engine data identified low boost condition.
- Replaced boost pressure actuator, Electric Change-over valve E4A-41-300-801, associated hoses, clamps and restrictor fitting AEP-00361.
- Replaced intake ducting with new DS-HA2-75-0380-30-45

This aircraft and/or component(s) identified above was/were repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy in respect to the work performed, subsequently approved for return to service.

Brett Zefting
A&P 3164534



**ZEFTING
AVIATION**

Date: 08/07/2024
Reg: N149DA
Tach: 1126.7 AFTT: 1126.7
Airframe: DIAMOND AIRCRAFT IND GMBH DA 62 S/N: 62.092
RIGHT Engine: Austro E4P-C E4P-C-00186

- Replaced HPP fuel pump assy with new p/n E4A-30-000-BHY s/n 23-05-19-02-01248 and E4A-00-301-KIT 300H kit, phase II SEPP

All work performed IAW Austro MM E4 Series Doc E4.08.04, Rev 31. Post mx engine runs revealed normal operations, problem could not be replicated.

This aircraft and/or component(s) identified above was/were repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy in respect to the work performed, subsequently approved for return to service.

Brett Zefting
A&P 3164534



**ZEFTING
AVIATION**

Date: 11/22/2024
Reg: N149DA
Tach: 1138.3 AFTT: 1138.3
Airframe: DIAMOND AIRCRAFT IND GMBH DA 62 S/N: 62.092
RIGHT Engine: Austro E4P-C E4P-C-00186

- Engine analysis revealed signs of a sticking valve after the pilot reported a rough running engine on climbout.
- Performed hot differential compression test, all cylinders observed at 79/80 or better.
- Drained gearbox oil, engine oil and coolant.
- Inspected gearbox magnetic drain plug per chapter 85-10-00, no metal observed on plug.
- Performed two mass flywheel inspection and found rivet heads out of tolerance.
- Replaced flywheel assembly with new kit p/n E4PB-73-000-000-KIT s/n***, Screw E4A-73-000-801 (qty 8)
- Replaced cylinder head assembly with p/n E4A-00-M02-BHY s/n 03355
- Replaced intake camshaft with p/n E4A-23-41A-000 s/n***
- Replaced exhaust camshaft with p/n E4A-23-31A-000 s/n 02762
- Installed the following hardware/gaskets/sealing rings in the course of the above work:
 - MSB-E4-043-KIT (Qty 1), E4A-01-000-409 Cyl. head gasket (1), E4A-01-000-201 Cyl. head screw (10), E4A-04-000-001 Gasket (4), E4A-04-000-002 Gasket (1), E4A-04-000-005 Gasket (1), E4A-05-000-104 Gasket (1), E4A-01-000-401 Gasket (1), E4A-01-000-402 Gasket (1), E4A-76-400-401 Sealing ring (1), DIN7603-A10X13.5-AL Gasket seal (2), DIN5401-10-G20 10mm Ball bearing (4), DIN7603-14X18X2.0 Copper Gasket (2), DIN7603-12X16X2.0 sealing ring (2), DIN6797-A6-4-A2 Lock washer (6), ISO7044-M8-8-CU Lock nut (12), E4A-04-000-003 Exh. gasket (1), E4A-15-000-102 O-ring (1), OR-6X2-FPM75 O-ring (1), OR-8X1-FPM75 O-ring (2), OR-63.17X2.62-FPM75 O-ring (1).
- Replaced 3 turbo to tailpipe exhaust studs with new E4A-41-111-802.
- Performed Ca-Cr test run, values well within limits.
- Installed 7 quarts Aeroshell Diesell Ultra
- Serviced gearbox with Spirax
- Installed Zerex G48 Coolant.
- Post mx engine runs revealed normal operations. Full power performance test completed.

All work performed IAW Austro MM E4 Series Doc E4.08.04, Rev 31. Post mx engine runs revealed normal operations, problem could not be replicated.

This aircraft and/or component(s) identified above was/were repaired and/or inspected per current Regulations of the Federal Administration and found to be airworthy in respect to the work performed, subsequently approved for return to service.

Brett Zefting
A&P 3164534