



RH

# AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG #2

1. Approving Competent Authority /Country <b>Austro Control GmbH Austria</b>		<b>AUTHORISED RELEASE CERTIFICATE</b> <b>EASA FORM 1</b> <b>Austro Engine GmbH</b> Rudolf Diesel Straße 11 2700 Wiener Neustadt, AUSTRIA			3. Form Tracking Number <b>AE028199</b>
4. Organisation Name and Address:					5. Work Order / Contract / Invoice <b>ES191602</b>
6. Item	7. Description	8. Part No.	9. Qty.	10. Serial No.	11. Status/Work
1	E4PC Engine	E4PC-00-000-000 Iss.: 004	1	E4P-C-00266	New
12. Remarks					
General: The engine conforms to the type design approved by Canadian Department of Transport Type Certificate IE-68. General: The engine complies with the applicable airworthiness directives Item 1: The Engine conforms to EASA TCDS E.200 Issue 10; Damper assy P/N: D44-7306-30-00_1 (EASA Form1: AJ48442) and Item 1: Fuel hose assy P/N: A24119-01 (EASA Form1: 220832) acc. DAI-Drawing D44-7306-00-00 Item #16 & #17 cleaned and installed acc AE APA 26.02.2014					
13a. Certifies that the items identified above were manufactured in conformity to:			14a. <input type="checkbox"/> Part-145.A.50 Release to Service <input type="checkbox"/> Other regulation specified in block 12		
<input checked="" type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature		13c. Approval / Authorisation Number		14b. Authorised Signature	
 		AT.21G.0010		14c. Certificate/ Approval Ref. Number	
		13d. Name		14d. Name	
		13e. Date (dd mmm yyyy)		14e. Date (dd mmm yyyy)	
		13 JUN 2019			
USER / INSTALLER RESPONSIBILITIES This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1. Statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

EASA Form 1 - 21 Issue 2

FOQ05\_Form1\_rev1

Freigabe: 24.Aug. 2010 / M. Nemec

Section 3A: Engine Service and Maintenance Log

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

Registration:  
AC Serial Number: N502LA  
LH Engine Serial Number: 62 C022  
RH Engine Serial Number: E4P-C-00266  
LH Prop Serial Number: E4P-C-00266  
RH Prop Serial Number: 190628  
Airframe Total Time: 190628  
4.7 HRS

- RH Total Time Engine Brought forward from Production Test Flight Journey Log (DAI - Form Q-224) 4.7 HRS
- RH Engine installed new on Aircraft DA 62, S/N: 62.C022
- The following STC's are incorporated:
  - No STC's incorporated
- Bi-weekly AWD check carried out to current revision 2020-04 all applicable AD's complied with, see attached.
- The work described above was carried out IAW the applicable Standard of Airworthiness.

  
Inspector

FEB 26 2020  
date

(Intentionally left blank below this point)

ENGINE MODEL: AE330  
ENGINE S/N (R): E4P-C-00266  
REG NO N502LA  
WORK ORDER: 0129

**Premier**  
Aircraft Service

**Premier Aircraft Sales, Inc.**  
3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 01/20/20  
AC: 01/20/20  
ENG: 01/20/20  
FLIGHT: 01/20/20

- Right Engine Entries**
- Changed oil and filter. Serviced engine with Aeroshell Diesel Ultra
  - Inspected gearbox chip collector

DATE: 8/6/2020

SIGNED:   
Chad Cox, License: AP3782800

Work Order: 0129  
Printed by EBis 3 (datacomedia.com)

ENGINE MODEL: AE330  
ENGINE S/N (R): E4P-C-00266  
REG NO N502LA  
WORK ORDER: 0250

**Premier**  
Aircraft Service

**Premier Aircraft Service, Inc.**  
3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562.881.5345

DATE: 4/15/2021  
AC: 4/15/2021  
ENG: 4/15/2021  
FLIGHT: 4/15/2021

- Right Engine Entries**
- Performed 100 Hour Inspection using DA62 AMM as a guide
  - Changed oil and filter. Serviced engine with Aeroshell Diesel Ultra
  - Inspected gearbox chip collector

I certify this engine has been inspected IAW an Annual Inspection and was determined to be in airworthy condition.

DATE: 4/15/2021

SIGNED:   
David Seastead, License: AP3492477 IA

Work Order: 0250  
Printed by EBis 3 (datacomedia.com)

THIS PAGE TOTALS									
PAGE TOTALS									
TOTALS SINCE NEW									

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ENGINE MODEL: AE330  
ENGINE S/N (R): E4P-C-00266  
REG NO: N502LA  
WORK ORDER: 0549



### Premier Aircraft Service, Inc.

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562 881 5345

DATE: 4/8/2022  
A/C TSN: 270.8  
ENG TT (R): 270.8  
FLIGHTTIME: 270.8

#### Right Engine Entries

- Replaced HPP with new S/N 21-07-08-02-00275
- Replaced fuel rail with serviceable assembly TSN: 148 0
- Replaced injectors with new. IQA: AP8GEE, 6RRB2S, 7ZRDYI, ARHADW

DATE: 4/8/2022

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0549

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: AE330  
ENGINE S/N (R): E4P-C-00266  
REG NO: N502LA  
WORK ORDER: 0562



### Premier Aircraft Service, Inc.

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562 881 5345

DATE: 5/11/2022  
A/C TSN: 274.5  
ENG TT (R): 274.5  
FLIGHTTIME: 274.5

#### Right Engine Entries

- Performed 100 Hour Inspection using DA62 AMM as a guide
- Changed oil and filter. Serviced engine with Aeroshell Diesel Ultra
- Inspected gearbox chip collector
- Performed 300hr gearoil and filter change
- Performed 300hr Injector Cover Zonal Inspection
- Performed 300hr Alternator Inspection
- Performed 300hr TVD Inspection

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

DATE: 5/11/2022

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0562

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: AE330  
ENGINE S/N (R): E4P-C-00266  
REG NO: N502LA  
WORK ORDER: 0575



### Premier Aircraft Service, Inc.

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone: 562 881 5345

DATE: 5/11/2022  
A/C TSN: 274.5  
ENG TT (R): 274.5  
FLIGHTTIME: 274.5

#### Right Engine Entries

- MSB-E4-029 - Installed BPA restrictor
- Replaced turbo and head drain gaskets
- Replaced oil separator return o-ring

DATE: 5/11/2022

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0575

Printed by EBis 3 (datcomedia.com)

27 June 2022

Tach Time: 288.9

Total Time: 288.9

#### RIGHT POWERPLANT

N502LA  
AUSTRO E4P  
S/N: E4P-C-00266

- \* Tested wastegate controller per Austro engine maintenance manual, section 81/E4.08.04 Rev.30 using regulated air pressure, wastegate function normal and within limits
- \* Inspected BPA (Boost Pressure Restrictor) restrictor/bleed for contamination, all clear at this time
- \* R/R boost pressure electronic actuator control regulator per Austro maintenance manual, part mfg. description/ Electronic Change-over Valve 24V, p/n: E4A-41-300-801, Lot#RC2200699
- \* Found gasket missing from engine manifold flange to inlet of turbocharger. Removed engine manifold and lapped mating surfaces for trueness of mating surfaces, replaced all exhaust manifold gaskets to engine block, p/n: EYA-04-000.001 installed new mounting manifold nuts p/n: ISO07044-M8-8-LV, torqued per austro engine maintenance manual
- \* R/R gasket, upper engine manifold to inlet turbo, p/n: E4A-04-000-002
- \* R/R turbo outlet exhaust flange to tailpipe, p/n: EYA-04-000-003
- \* R/R all four bolts securing exhaust manifold outlet to turbo inlet with new, p/n: E4A 04-000-806
- \* Installed eight missing conical washers, p/n: E4A-04-000-804 & p/n: E4A-04-000-805 on exhaust manifold outlet flange to turbo inlet on four mounting bolts
- \* Torqued all nuts and bolts using Austro engine maintenance manual as aproved data and procedures
- \* Ran engine and checked for turbo operation, engine exhaust, oil and coolant leaks, none found at this time
- \* Test Flight this date, okay to return to service

Kim Kevin Matthews AP2620071IA  
AP2620071IA

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							



Going your way every day since 1957  
Right Engine Logbook Entry

Date: 11-30-2022  
TSMOH: 377.2

Aircraft: N502LA  
TTAF: 377.2

SN: 62C022  
Tach: 377.2

Complied with 100 hour inspection on the engines per Austro Engines Maintenance manual chapter 5 requirements this date. Oil and filter changed using Aeroshell Diesel Ultra and 100 hour kit p/n E4A-52-000-KIT. Cleaned the gearbox filter and replaced gearbox oil with Shell Spirex S6 GXME 75W-80. Tied up misc wiring. Replaced prop deice nozzle with new p/n 15525-03. I certify that this engine was inspected in accordance with an 100 hour inspection and was determined to be in airworthy condition.

*[Signature]*

A&P3296474IA

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE FBO - MAINTENANCE

Don Davis Aviation, Inc - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6000 - Fax 270 826 6040



Going your way every day since 1957  
Aircraft Logbook Entry

Date: 2-16-2023  
TSMOH: 391.7

Aircraft: N502LA  
TTAF: 391.7

SN: 62C022  
Tach: 391.7

Annual inspection completed this date. AD's checked thru CD2023-02. I certify that this aircraft has been inspected in accordance with an Annual inspection and was determined to be in airworthy condition.

*[Signature]*

A&P3296474IA

CHARTER - AIRCRAFT MANAGEMENT - FULL SERVICE FBO - MAINTENANCE

Don Davis Aviation, Inc - 2154 Hwy 136 West - Henderson, KY 42420 - Telephone 270 826 6000 - Fax 270 826 6040

ENGINE MODEL AE330  
ENGINE S/N (R) E4P-C-00266  
REG NO N502LA  
WORK ORDER 0815



Premier Aircraft Service, Inc.  
3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone 562 881 5345

Right Engine Entries  
• Replaced wastegate actuator  
• Replaced boost pressure actuator

DATE 4/12/2023

SIGNED: *[Signature]*  
Chad Cox, License AP3782800 IA

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TOTALS					
PREVIOUS TOTALS					
TOTALS SINCE NEW					

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ENGINE MODEL AE330  
ENGINE S/N (R) E4P-C-00266  
REG NO N502LA  
WORK ORDER 0828



### Premier Aircraft Service, Inc.

3804 Falcon Way W  
Hangar 18S  
Fort Worth, TX 76106  
Phone 562 881 5345

DATE 4/21/2023  
A/C TSN 434 6  
ENG TT (R) 434 6  
FLIGHTTIME 434 6

#### Right Engine Entries

- Replaced governor with new P-877-16 S/N 22G1306-K/G

DATE: 4/21/2023

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0828

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MAKE: DIAMOND  
MODEL: DA62  
S/N: 62 C022  
REG. NO: N502LA  
SN - R: E4P-C-00266



### Aero City Maintenance

2901 East Spring St. Suite A  
LONG BEACH, California 90806

W/O #: 4608  
DATE: 09-27-2024  
A/C Tach: 570.9  
ENG TT - R: 570.9

#### RIGHT ENGINE Entries

- Complied with 100Hr/Annual inspection using Diamond aircraft chapter 5 maintenance manual and FAR part 43 appendix D as a guide. Engine oil drained, oil filter removed and inspected with no defects noted. service engine oil with Shell Diesel Ultra and 100hr service kit PN: E4A-52-000-KIT.
- All applicable Airworthiness Directives have been researched through bi-weekly issue 2024-18
- Performed RH engine 300/600 hour inspection and servicing as required using Austro E4.08.04R31 MM as a guide. Replaced RH engine flywheel PN: E4PB-73-000-000-KIT SN: 08204 (old SN: 03232) and wastegate circlip for 600 hour replacement using Austro E4.08.04R31 MM as a guide. Operation/leak check good.
- Replaced RH turbo drain line banjo fitting seals using Austro MM Ch. 79 as a guide. Operation/leak check good.
- Replaced RH engine water pump PN: E4A-60-100-000 due to leaks using AUSTRO E4.08.04R31 MM CH. 85-50-00 as a guide. Operation/leak check good.
- Replaced RH engine tube to wastegate solenoid using Austro MM Ch. 81 as a guide. Operation/leak check good..

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

DATE: 09-27-2024

SIGNED:

Jonathan Shea  
Cert: AP 3823821 IA

WORK ORDER: 4608

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