

AIRCRAFT TECHNICAL RECORD

Section 3. ENGINE LOG

ENGINE LOG

1. Make:	Austro Engine GmbH
2. Model:	E4-B
3. Specification:	E-B-00-000-000
4. Manufacturer's Serial Number:	E4-B-00291
5. Date of Manufacture:	July 2018
6. Aircraft Inspection Cycle:	



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	→						



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

Registration	N131TS
Airframe total time	5057.1
Engine LH SN	E4-B-00142
Engine LH TT	359.9
Prop LH SN	05118
Prop LH TT	1155.9

AC Serial Number	42.073
Work Order	SO072378
Engine RH SN	E4-B-00291
Engine RH TT	359.9
Prop RH SN	070584
Prop RH TT	950.4

Electronic logbook files closed and original paper logbooks to be resumed:

- UVU electronic log books closed – copies of all electronic files printed
- **Last three** electronic logbook entries printed and copies inserted into paper logbook
- Paper logbooks are now to be used as primary technical logbooks moving forward

Current airframe times:

G1000 total time: 5057.1 hrs
Hobbs total time: 6086.7 hrs

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

ACA

Date **SEP 16 2019**



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

Registration: N131TS
Airframe total time: 5075.1

AC Serial Number: 42.AC073
Work Order: SO072378

- Rh engine removed

PN: E4B, SN: E4-B-00291 with 359.9 Hrs TT

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

ACA

Date: **JAN 08 2020**

[illegible]

CARRY FORWARD to Top of Next Page

LICENCE:
NAME OF
AMO/ACA

NAME/
SIGNATURE

DESCRIPTION OF WORK PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)

Utah Valley University
Aviation Science Repair Station
1185 Mike Jense Parkway
Provo, UT 84601
#7UVR925B

Company: Utah Valley University

N#:N131TS ACType:DANG Bill:6061.2 S1st:P/D WKO#:1006352
Opened:04/16/19 05:59 Closed:04/17/19 16:34
Make:New Generation Model:DA42 NG ShopCode:A EquipCode:A Acct#:0

Tach	Reading
1	5057.2

Part#	Serial#	Description	Tot Time	TSO
DA42NG	42.073	AIRFRAME (DIAMOND NEW GENERATI	5057.2	5057.2
E4-B-00-000-000	E4-B-00142	ENGINE --- AUSTRO/DA42NG	342.0	342.0
E4-B-00-000-000	E4-B-00291	ENGINE --- AUSTRO/DA42NG	2032.4	342.0
MTV-6-R-C-F	05118	PROPELLER, AUSTRO/DA42NG	4577.4	1138.0
MTV-6-R-C-F	070564	PROPELLER, AUSTRO/DA42NG	2497.8	938.5

Cycle Abbr	Total
LNDG	10653

PD# PD-GAMA Part# / Serial#

2 85-70- R/H ENG LEAKING COOLANT.

CA# CA-GAMA ACC Date Hrs Tech Insp

1 85-70- U 04/16/19 3.0 BDB ETS COOLANT HEAT EXCHANGER HOSE ON FRONT NEAR GEARBOX HAD TORN AND WAS LEAKING. CHANGED HOSE AND REFILLED COOLANT AND PRESSURE TESTED AND RAN AIRCRAFT. LEAK CHECKS GOOD.

2 85-70- U 04/16/19 1.0 GVD ETS CHECKED COOLANT AND COWLED ENG.

Part#:D64-2146-00-02 Serial#: Qty: 1 ACC:U HOSE, CABIN HEAT COOLANT --- DA42NG

Other

Transaction	WKO#	S1st	Part#	Serial#	Qty	Date	ACC	Description
Requisition	1006352	P/D	D64-2146-00-02		1	04/17/19	U	HOSE, CABIN HEAT CO
Requisition	1006352	P/D	D64-2146-00-02		1	04/17/19	U	HOSE, CABIN HEAT CO

Continued
on Back

(End of Detail)

Utah Valley University
Aviation Science Repair Station
1185 Mike Jense Parkway
Provo, UT 84601
#7UVR925B

Company: Utah Valley University

8/2019 12:32:15

N#:N131TS ACType:DANG Bill:6040.5 Sst:P/D WKO#:1006339

Opened:04/06/19 07:01 Closed:04/08/19 12:32

Make:New Generation Model:DA42 NG ShopCode:A EquipCode:A Acct#:0

Tach Reading

1 5043.7

Part#	Serial#	Description	Tot Time	TSO
DA42NG	42.073	AIRFRAME (DIAMOND NEW GENERATI	5043.7	5043.7
E4-B-00-000-000	E4-B-00142	ENGINE --- AUSTRO/DA42NG	328.5	328.5
E4-B-00-000-000	E4-B-00291	ENGINE --- AUSTRO/DA42NG	2018.9	328.5
MTV-6-R-C-F	05118	PROPELLER, AUSTRO/DA42NG	4563.9	1124.5
MTV-6-R-C-F	070564	PROPELLER, AUSTRO/DA42NG	2484.3	925.0

Cycle Abbr Total

LNDG 10600

PD# PD-GAMA Part# / Serial#

1 28-00-

R/H ENGINE'S FUEL TEMPERATURE INDICATOR IN THE "RED".

CA# CA-GAMA ACC Date Hrs Tech Insp

1 28-00- U 04/08/19 1.3 GVD JMJ RE-SECURED FUEL TEMP SENSOR PLUG AND WIRES. OPSCHECK ON GROUND OK.

PD# PD-GAMA Part# / Serial#

2 71-60-

ALT AIR DOORS NOT SHUT. (L/H ALT AIR DOOR GUIDE BOLT PULLED OUT OF VALVE BODY).

CA# CA-GAMA ACC Date Hrs Tech Insp

1 71-60- U 04/08/19 2.0 GVD JMJ REPLACED VALVE WITH SERVICABLE PART # D64-7166-20-30, AND BUSHING NPN BU2-12-08-0025-C.

(End of Detail)

Continued
on Back



Aviation Science Repair Station
1185 Mike Jense Parkway
Provo, UT 84601
#7UVR925B

N#:N131TS ACType:DANG Bill:6026.4 Sst:P/D WKO#:1006332
Opened:04/03/19 13:52 Closed:04/03/19 16:19
Make:New Generation Model:DA42 NG ShopCode:A EquipCode:A Acct#:0

Tach	Reading
1	5034.4

Part#	Serial#	Description	Tot Time	TSO
DA42NG	42.073	AIRFRAME (DIAMOND NEW GENERATI	5034.4	5034.4
E4-B-00-000-000	E4-B-00142	ENGINE --- AUSTRO/DA42NG	319.2	319.2
E4-B-00-000-000	E4-B-00291	ENGINE --- AUSTRO/DA42NG	2009.6	319.2
MTV-6-R-C-F	05118	PROPELLER, AUSTRO/DA42NG	4554.6	1115.2
MTV-6-R-C-F	070564	PROPELLER, AUSTRO/DA42NG	2475.0	915.7

Cycle Abbr	Total
LNDG	10564

PD# PD-GAMA Part# / Serial#

1 73-00-

PILOTS REPORT HIGH FUEL TEMP (IN RED) AFTER EMERGENCY DESCENT

(RH) *CS*

CA# CA-GAMA ACC Date Hrs Tech Insp

1	73-00-	U	04/03/19	1.5	ETS	JMJ	INSPECTED FUEL COOLER IN DUCT FOR OBSTRUCTIONS, NO DEFECTS NOTED. PERFORMED EXTENDED GROUND RUN AT VARYING LOAD, MID AND FULL POWER SETTINGS, IN NORMAL AND CROSSFEED FUEL POSITIONS. HIGHEST FUEL TEMP ACHIEVED 32 DEG C, NO ABNORMAL CONDITION OBSERVED
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(End of Detail)

I certify the aircraft airframe, aircraft engine, propeller, or appliance identified above has been maintained and inspected in accordance with current regulations of the Federal Aviation Administration with respect to the work performed and is approved for return to service. Certified Repair Station 7UVR925B.

Authorized Signature 

Date 04-05-2019

I certify the aircraft airframe, aircraft engine, propeller,
or appliance identified above has been maintained and
inspected in accordance with current regulations of the
Federal Aviation Administration with respect to the work
performed and is approved for return to service.
Certified Repair Station 7UVR925B.

Authorized Signature _____
Date 04-06-2019

Company: Utah Valley University

ion

11:6026.4 SiSt:P/D WKO#:1006332
ed:04/03/19 16:19
442 NG ShopCode:A EquipCode:A Acct#:0

Utah Valley University
Aviation Science Repair Station
1185 Mike Jense Parkway
Provo, UT 84601
#7UVR925B

N#:N131TS ACType:DANG Bill:5934.5 SiSt:P/D WKO#:1006197
Opened:02/01/19 07:08 Closed:02/14/19 10:00
Make:New Generation Model:DA42 NG ShopCode:A EquipCode:A Acct#:0

Tach Reading

1 4972.1

Part#	Serial#	Description	Tot Time	TSO
DA42NG	42.073	AIRFRAME (DIAMOND NEW GENERATI	4972.1	4972.1
E4-B-00-000-000	E4-B-00142	ENGINE --- AUSTRO/DA42NG	256.9	256.9
E4-B-00-000-000	E4-B-00291	ENGINE --- AUSTRO/DA42NG	1947.3	256.9
MTV-6-R-C-F	05118	PROPELLER, AUSTRO/DA42NG	4492.3	1052.9
MTV-6-R-C-F	070564	PROPELLER, AUSTRO/DA42NG	2412.7	853.4

Cycle Abbr Total

LNDG 10352

PD# PD-GAMA Part# / Serial#

1 04-00- PERFORM AN ANNUAL/1000 HOUR INSPECTION

CA# CA-GAMA ACC Date Hrs Tech Insp

6	71-00-	S	02/07/19	4.0	MAT	JMJ	INSPECTED L/H ENGINE IAW CFR PART 43, APPENDIX D AND UVU DA42NG ANNUAL/1000 HOUR MAINTENANCE/INSPECTION CHECKLIST.
7	71-00-	S	02/07/19	4.0	MAT	JMJ	INSPECTED R/H ENGINE IAW CFR PART 43, APPENDIX D AND UVU DA42NG ANNUAL/1000 HOUR MAINTENANCE/INSPECTION CHECKLIST.
8	79-00-	S	02/07/19	1.0	MAT	JMJ	DRAINED L/H ENGINE'S OIL. REMOVED, VISUALLY INSPECTED ENGINE OIL FILTER WITH NO DEBRIS DETECTED. INSTALLED NEW FILTER INCLUDED IN KIT LISTED. SERVICED ENGINE WITH 7 QUARTS SHELL HELIX ULTRA 5W30LT. OPERATIONAL, LEAK CHECKS GOOD.
9	79-00-	S	02/01/19	1.0	MAT	JMJ	DRAINED R/H ENGINE'S OIL. REMOVED, VISUALLY INSPECTED ENGINE OIL FILTER WITH NO DEBRIS DETECTED. INSTALLED NEW FILTER INCLUDED IN KIT LISTED. SERVICED ENGINE WITH 7 QUARTS SHELL HELIX ULTRA 5W30LT OIL. OPERATIONAL, LEAK CHECKS GOOD.

Part#:LN94-20020	Serial#:	Qty:	1 ACC:S	COTTER PIN --- DA42NG
Part#:IS01234-1.6X20-ZP	Serial#:	Qty:	1 ACC:S	COTTER PIN
Part#:E4A-70-000-806	Serial#:	Qty:	2 ACC:S	FILTER ELEMENT, GEARBOX --- AUSTRO
Part#:E4A-41-100-801	Serial#:	Qty:	2 ACC:U	CIRCLIP, SPRING LOADED
Part#:DA42-AE-100KIT	Serial#:	Qty:	1 ACC:S	KIT, 100 HOUR INSPECTION --- AUSTRO

LICENCE:
AMEOT
AMOIACA

NAME/
SIGNATURE

Part#:5W30LT

Serial

Qty: 14 ACC:S ENGINE L, DIESEL --- AUSTRO/DA42NG

PD# PD-GAMA Part# / Serial#

10 76-00-

MAP SENSOR PLUG: HARNESS COVER/CAP LOOSE ON PLUG, L&R
ENGINES, FORE & AFT SENSORS (4 TOTAL)

CA# CA-GAMA ACC Date Hrs Tech Insp

1 76-00-

U

02/06/19

1.0

MAT

JMJ

SECURED MAP SENSOR HARNESS PLUG COVER/CAPS ON L&R ENGINES
(ALL 4) WITH PLASTIC TY-WRAPS.

PD# PD-GAMA Part# / Serial#

12 76-0-

AIRBOX TEMP SENSOR, R-ENGINE: DUE TO ANGULAR POSITION, CORNER
OF COVER IS IN CONTACT WITH ALUMINUM COOLANT TUBE.

CA# CA-GAMA ACC Date Hrs Tech Insp

1 76-00-

U

02/06/19

0.7

MAT

JMJ

REMOVED PLUG FROM AFT AIRBOX SESOR, DRESSED CORNER IN
CONFLICT WITH THE COOLANT LINE. REINSTALLED PLUG & VARIFIED
CLEARANCE FROM COOLANT LINE.

PD# PD-GAMA Part# / Serial#

13 71-20-

ENGINE VIBRATION MOUNT LEAKING, L-ENGINE O/B MOUNT.

CA# CA-GAMA ACC Date Hrs Tech Insp

1 71-20-

U

02/09/19

1.0

BDB

JMJ

REMOVED AND REPLACED ENGINE MOUNT WITH MOUNT ROBBED FROM
455AM.

Part#:LN9037-M8X18

Serial#:

Qty: 1 ACC:U BOLT

Other

Transaction	WKO#	SiSt	Part#	Serial#	Qty	Date	ACC	Description
Requisition	1006197	P/D	15X600-6		1	02/04/19	U	TIRE, MAIN GEAR WHE
Requisition	1006197	P/D	20-2700-20-04		1	02/05/19	U	SPRING
Requisition	1006197	P/D	20-2700-20-04		1	02/05/19	U	SPRING
Requisition	1006197	P/D	302-246-401		1	02/04/19	S	TUBE, G15/6.00X6-TR
Requisition	1006197	P/D	D60-2560-91-00	18-211-49	1	02/04/19	S	BATTERY PACK ASSEMB
Requisition	1006197	P/D	DA4-2723-34-00		1	02/06/19	U	"S" TUBE/RUDDER PED
Requisition	1006197	P/D	DIN471-10-2P		2	02/06/19	S	RING, SNAP
Requisition	1006197	P/D	DS-TH1-32-12		1	02/06/19	U	EYELET, CABLE --- D

DESCRIPTION OF WORK PERFORMED:
(INSPECTION, REPAIRS, REPLACEMENT)

Utah Valley University
Aviation Science Repair Station
1185 Mike Jense Parkway
Provo, UT 84601
#7UVR925B

Company: Utah Valley University

N#:N131TS ACType:DANG Bill:5924.0 SiSt:P/D WKO#:1006187
Opened:01/30/19 06:20 Closed:01/30/19 07:27
Make:New Generation Model:DA42 NG ShopCode:A EquipCode:A Acct#:0

Tach	Reading
1	4966.0

Part#	Serial#	Description	Tot Time	TSO
DA42NG	42.073	AIRFRAME (DIAMOND NEW GENERATI	4966.0	4966.0
E4-B-00-000-000	E4-B-00142	ENGINE --- AUSTRO/DA42NG	250.8	250.8
E4-B-00-000-000	E4-B-00291	ENGINE --- AUSTRO/DA42NG	1941.2	250.8
MTV-6-R-C-F	05118	PROPELLER, AUSTRO/DA42NG	4486.2	1046.8
MTV-6-R-C-F	070564	PROPELLER, AUSTRO/DA42NG	2406.6	847.3

Cycle Abbr	Total
LNDG	10338

PD# PD-GAMA Part# / Serial#

1 85-00- L/H AND R/H ENGINE'S GEARBOX OIL LOW

CA# CA-GAMA ACC Date Hrs Tech Insp

1 85-00- U 01/30/19 1.0 ELP PAB REMOVED COWLING. SERVICED L/H AND R/H GEARBOXES WITH SHELL
SPIRAXS6-GMXE GEAR OIL TO LIMITS. INSTALLED, SAFETIED
SERVICE PLUG. INSTALLED COWLING.

I certify the aircraft airframe, aircraft engine, propeller,
or appliance identified above has been maintained and
inspected in accordance with current regulations of the
Federal Aviation Administration with respect to the work
performed and is approved for return to service.
Certified Repair Station 7UVR925B.

(End of Detail)

Authorized Signature

Paul Bassett

Date

30 January 2019

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

Aircraft Reg: N590ER
Work Order: S0072539

Date: March 19, 2021

	Manufacturer	Model	SN	
Airframe	Diamond	DA 42 NG	42.AC069	
LH Engine	Austro	E4-B	E4-B-00142	TSN: 5693.0 Hrs
RH Engine	Austro	E4-B	E4-B-00291	TSN: 359.9 Hrs
LH Prop	Mt-Propeller	MTV-6-R-C-F/CF187-129	110860	TSN: 359.9 Hrs
RH Prop	Mt-Propeller	MTV-6-R-C-F/CF187-129	080179	TSOH: 0.00 Hrs.

The following maintenance was carried out on the RH engine:

- Austro Engine PN: E4-B SN: E4-B-00291 with 359.9 Hrs TT installed
- 100 hr. inspection carried out I.A.W. Austro A.M.M. & Diamond A.M.M. latest revisions
- Engine serviced with Aeroshell Diesel ultra 5W30 oil
- Gearbox serviced with Spirax-S6-GXME_20L gearbox oil
- Engine cooling system serviced with a 50/50 mixture of distilled water and glycol Glystantin G48 adjusted to -38°C
- Replaced coolant tank silicate pouch, **Next replacement due at engine replacement or Mar 1927**
- New engine shock mounts installed during installation. All component isolation mounts also changed at this time.
- Replaced turbo V-clamp
- Fuel pressure pulsation dampers replaced. **Next replacement due at engine replacement**
- Engine induction air filters replaced
- Coolant tank silicate pouches replaced with new. **Next replacement due at engine change or Mar 1927**
- Replaced coolant cooler
- Replaced coolant thermostat
- Replaced coolant tube to thermostat bracket
- Replaced engine de-ice nozzle support bracket
- Wastegate controller circlips replaced
- Weld repair carried out on intercooler mounting flange IAW DA42NG AMM Doc. 7.02.15 Rev 4
- Engine oil Quick drains installed IAW OSB42NG-039
- Replaced turbo charger intake hose
- Replaced intercooler guard
- Replaced propeller accumulator oil line.

Following Engine FAA AWDs' checked & C/W as applicable:

- AWD 2010-23-09- High pressure fuel pumps- Found PCW
- AWD 2011-18-19- High pressure fuel pumps- Found PCW
- AWD 2014-08-10- Gate controllers- N/A by component PN
- AWD 2020-14-07- Fuel control/Reciprocating engines and reciprocating engine power section- N/A by engine TSN
- AWD 2020-15-05- Reciprocating engine power section- **Latest AFM revision in use**
- AWD 2020-22-14- Reciprocating engine supercharger- **CW this inspection**
- Biweekly FAA AD Checked through 2021-06

Following Engine EASA (CASA) AWDs' checked & C/W as applicable:

- 2011-0039- Engine fuel & control high pressure fuel pump inspection / replacement- Found PCW
- 2013-0213 R1- Engine waste water controller replacement- N/A by component PN
- 2018-0125- Engine turbocharger waste gate controller and control rod circlip life limit / modification – **CW this inspection**
- 2017-0103 R1- Engine timing chain replacement / aircraft flight manual limitations section amendment – **Latest AFM in use**
- 2019-0041- Time limits / maintenance checks airworthiness limitations section amendment – N/A by engine TSN
- Biweekly EASA AD Checked through 05-2021

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

Signature:  ACA:



THIS PAGE TOTALS						
PREVIOUS TOTALS						
TOTALS SINCE NEW						

CARRY FORWARD to Top of Next Page

NAME/
SIGNATURELICENCE:
AME or
AMO/ACAENGINE MODEL:
ENGINE S/N (R):
REG. NO: N590ER
WORK ORDER: 0342**Premier Aircraft Service, Inc.**3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345DATE: 6/11/2021
A/C TSN: 5789.9
ENG TT (R): 76.3
HOBBS: 108.4**Right Engine Entries**

- Performed 100 Hour Inspection using DA42NG 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 a 100 Hour Inspection and was determined to be in airworthy condition.

DATE: 6/11/2021

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0342

Printed by EBis 3 (datcomedia.com)

ENGINE MODEL: AE300
ENGINE S/N (R): E4-B-00291
REG. NO: N687ML
WORK ORDER: 0388**Premier Aircraft Service, Inc.**3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345DATE: 8/13/2021
A/C TSN: 5884.6
ENG TT (R): 551.5
HOBBS: 239.8**Right Engine Entries**

- Performed 100 Hour Inspection using DA42NG AMM as a guide
- Changed oil and filter. Serviced engine with Aeroshell Diesel Ultra
- Inspected gearbox chip collector
- Replaced HPP o-ring

I certify this engine has been inspected IAW a 100 Hour Inspection and was determined to be in airworthy condition.

DATE: 8/13/2021

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0388

Printed by EBis 3 (datcomedia.com)

Make: Diamond
Model: DA42NG
S/N: 42.AC069
REG NO: N687MLDiamond Fleet & Aviation services LLC
5070 S. Collins suite 205,
Arlington, TX 76018
Phone: 817-575-7828Date: 11/16/2021
Hobbs: 0367.7
A/C TSN: 5974.6
ENG TT: 641.5**Right engine**

- performed 100 hour inspection using DA42NG AMM as a guide
- Changed oil (serviced with aeroshell Diesel Ultra) and changed oil filter
- Inspected gearbox chip collector. No metal particles found
- Changed gearbox oil (serviced with shell Spirax 56 GXME 75W-80)
- All AD's complied with current BI-week

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

Date: 11/16/2021

SIGNED:

Austin Paden, A&P:4494928

Make: Diamond
Model: DA42NG
S/N: 42.AC069
REG NO: N687MLDiamond Fleet & Aviation services LLC
5070 S. Collins suite 205,
Arlington, TX 76018
Phone: 817-575-7828Date: 11/16/2021
Hobbs: 0367.7
A/C TSN: 5974.6
ENG TT: 641.5**Right engine**

- Performed 600 hour inspection using E4 series maintenance manual as a guide
- Replaced high pressure pumps on right engine S/N: 21-07-08-00193
- Replaced high pressure pump on left engine S/N: 21-07-08-00333
- Replaced Flywheel on right engine S/N: 05048
- Replaced Flywheel on left engine S/N: 05084
- Replaced circlip, spring load on both engines P/N: E4A-41-100-801
- Drained coolant and added new coolant

I certify this engine has been inspected IAW a 600 hour inspection and was determined to be in an airworthy condition.

Date: 11/16/2021

SIGNED:

Austin Paden, A&P:4494928

Section 3A: Engine Service and Maintenance Log

wo: N687ML 2022.03.25 Scheduled

Engine R - page 1 of 1



Diamond Fleet & Aviation Service - 5070 S. Collins S. Suite 205 - Arlington, TX 76018 - 9012474808

FORMED:
NT)

N687ML
TACH: 6073.8

AUSTRO, E4 SERIES, S/N: E4-B-00291
TTSN: 740.7 SMOH: 740.7

March 29, 2022

1. **Annual Inspection - R Engine** - Annual/100 Hour/200 Hour Inspection completed using FAR 43 Appendix D, AE300 E4B EMM (CH4 Airworthiness Limitations & CH5 Maintenance Intervals) as a guide. Drained and serviced Engine with Aeroshell Diesel Ultra 5w-30. Removed, inspected, and replaced oil filter. Results ok. Drained, inspected oil & plug, and refilled gearbox oil. Results ok. Completed Annual/100/200 Hour lubrication requirements. All ADs current & complied with through bi-week.
2. **100 Hour Inspection** - Completed in conjunction with Annual Inspection. Next Due at 6173.8 TACH.

With respect to the work performed, this engine has been found in an airworthy condition and is approved for return to service. Details of work performed are on file with Diamond Fleet & Aviation Service under work order: N687ML 2022.03.25 Scheduled.

Michael Smith A&P/IA 3906663

wo: N687ML 2022.07.11 Scheduled

Engine R - page 1 of 1



Diamond Fleet & Aviation Services - 5070 S. Collins S. Suite 205 - Arlington, TX 76018 - 9012474808

N687ML
TACH: 6168.0

AUSTRO, E4 SERIES, S/N: E4-B-00291
TTSN: 834.9 SMOH: 834.9

July 11, 2022

1. **100 Hour Inspection** - Inspection completed IAW AE300 EMM & FAR 43 Appendix D. Drained & serviced engine with 7 quarts Aeroshell diesel ultra; removed, inspected & installed new-serviceable oil filter; drained & serviced gearbox with 3 quarts Shell Spirax 75w80 oil; All ADs complied with through current bi-week. Next due @ 6268.0 TACH (934.8 ETSN).

With respect to the work performed, this engine has been found in an airworthy condition and is approved for return to service. Details of work performed are on file with Diamond Fleet & Aviation Services under work order: N687ML 2022.07.11 Scheduled.

Kavin Barney A&P 4416057

ENGINE MODEL: AE300
ENGINE S/N (R): E4-B-00291
REG. NO: N687ML
WORK ORDER: 0632



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 9/16/2022
A/C TSN: 6169
ENG TT (R): 835.9
HOBBS: 663.7

Right Engine Entries

- Replaced turbo drain gasket
- Replaced quick drain
- Performed 300hr gearoil and filter change
- Performed 300hr cylinder head / injector cover zonal inspections
- Performed alternator 300hr inspection. Replaced brush pack

DATE: 9/16/2022

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0632

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ENGINE MODEL: AE300
ENGINE S/N (R): E4-B-00291
REG. NO: N687ML
WORK ORDER: 0697



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 2/24/2023
A/C TSN: 6226 7
ENG TT (R): 893 6
HOBBS: 739 2

Right Engine Entries

- Performed 100 Hour Inspection using DA42NG AMM as a guide
- Changed oil and filter. Serviced engine with Aeroshell Diesel Ultra
- Inspected gearbox chip collector
- Replaced fuel injectors
- Replaced wastegate actuator
- Replaced boost pressure actuator
- MSB-E4-029/1 - installed BPA restrictor

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

DATE: 2/24/2023

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0697

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ENGINE MODEL: AE300
ENGINE S/N (R): E4-B-00291
REG. NO: N687ML
WORK ORDER: 0931



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 9/5/2023
A/C TSN: 6315 9
ENG TT (R): 982 8
HOBBS: 847 4

Right Engine Entries

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

DATE: 9/5/2023

SIGNED:

David Seastead, License: AP3492477 IA

Work Order: 0931

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ENGINE MODEL: AE300
ENGINE S/N (R): E4-B-00291
REG. NO: N687ML
WORK ORDER: 0977



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 11/8/2023
A/C TSN: 6350
ENG TT (R): 1016 9
HOBBS: 889

Right Engine Entries

- Performed 1000hr timing chain inspection
- Changed coolant G48
- Replaced alternator belt E4A-74-100-801

DATE: 11/8/2023

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 0977

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ENGINE MODEL: AE300
ENGINE S/N (R): E4-B-00291
REG. NO: N687ML
WORK ORDER: 1043



Premier Aircraft Service, Inc.

3804 Falcon Way W
Hangar 18S
Fort Worth, TX 76106
Phone: 562.881.5345

DATE: 3/1/2024
A/C TSN: 6369 9
ENG TT (R): 1036 8
HOBBS: 918 6

Right Engine Entries

- Performed 100 Hour Inspection using DA42NG 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 in accordance with an Annual Inspection and was determined to be in airworthy condition.

DATE: 3/1/2024

SIGNED:

Chad Cox, License: AP3782800 IA

Work Order: 1043

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

BROUGHT
FORWARD[illegible]

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