

N215BN
LH ENO

LOGBUCH MOTOREN

ENGINE LOGBOOK

Use this book please



CENTURION 2.0

S/N 02-02-03560

CENTURION
AIRCRAFT ENGINES

Motor-Logbuch Nr.:

1

für Kolbenmotor
for piston engine

Engine Log Book:

Baumuster:

Type of engine:

TAE 125

Baureihe:

Model:

02-99

Motor-Nr.:

Engine serial no:

02-02-03560

Hersteller:

Manufacturer:

Technify Motors GmbH

Platanenstraße

Phone:

Baujahr:

Year of manufacture:

2014

Kennblatt:

Data sheet:

TCDS EASA.E.055 - Issue 07 - 19 August 2013

ATA-NR.:05-7200-K000301
(Diamond 28V-DA42)

Bemerkungen:

Remarks:

Datum:

Date:

09. APR. 2014

Unterschrift:

Signature:

Motor - Hauptkomponenten / Engine main components



Bezeichnung Designation	P/N: Part number:	S/N: Serial number:	TSN: Time since new:	TSI: Time since inspection
Motor / Engine:	05-7200-K000301	02-02-03560	0:00	
ZMS / Dual mass flywheel:	05-7211-K018702	30564	0:00	
Hochdruckpumpe / High pressure pump:	05-7312-K005303	3413	0:00	
Vorförderpumpe / Feed pump:	05-7312-K013301	06723	0:00	
Getriebe / Gearbox:	05-7212-K043901	02544	0:00	
FADEC:	05-7610-E000201	5744	0:00	
Firmware:	02-7610-55101R12	TAE-125 m3.10*		
Mapping:	52-7610-E000509	O28D311DA42*		
Kabelbaum / Engine Loom:	05-7150-E000904	01881	0:00	
Alternator:	05-7150-E001901	1686	0:00	
Turbolader / Turbocharger:	05-7241-K009403	13876	0:00	
Raildruckventil / Rail pressure valve:	05-7320-E000703	None	0:00	

Änderungsstand / Modification record

TE:	Technische Mitteilung / Service Bulletin	LTA / AD:	Revision:	durchgeführt / performed:	Datum / Date:	Unterschrift: Signature:
0:00	TM TAE 000-0004		R155	manual in compliance TM TAE 000-0004 rev 155		
0:00	TM TAE 000-0007	2012-0116	R22	implemented during production		
0:00	TM TAE 125-0001		R14	lifetime information		
0:00	TM TAE 125-1001 P1		R1	not applicable		
0:00	TM TAE 125-1003 P1		R1	not applicable		
0:00	TM TAE 125-1004 P1		R0	implemented during production		
0:00	TM TAE 125-1005 P1	2008-0056R1-E	R3	not applicable		
0:00	TM TAE 125-1006 P1	2008-0106-E	R1	not applicable (dual mass flywheel installed)		
0:00	TM TAE 125-1007 P1	2009-0224	R3	implemented during production		
0:00	TM TAE 125-1008 P1	2008-0215	R1	implemented during production	19. APR. 2014	
0:00	TM TAE 125-1009 P1	2009-0224	R4	not applicable (gearbox 05-7212- K043901 installed)		
0:00	TM TAE 125-1010 P1	2010-0136	R2	not applicable before 900 hours TSN		
0:00	TM TAE 125-1011 P1	2011-0152-E	R2	not applicable (dual mass flywheel installed)		
0:00	TM TAE 125-1012 P2		R0	not applicable		
0:00	TM TAE 125-1013 P1	2011-0087-E	R0	not applicable (dual mass flywheel installed)		
0:00	TM TAE 125-1014 P1		R1	not applicable		
0:00	TM TAE 125-1015 P1	2012-0112	R0	not applicable		

Änderungsstand / Modification record

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Änderungsstand / *Modification record*

TTE:	Technische Mitteilung / <i>Service Bulletin</i>	LTA / AD:	Revision:	durchgeführt / performed:	Datum / Date:	Unterschrift: <i>Signature:</i>

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Austausch von Ausrüstungsteilen / Exchange of equipments

Teile- u. Serier

Part no.:

ENGINE MODEL: TAE
125-02-99
ENGINE S/N (L):
02-02-03560
REG. NO: 215BN
WORK ORDER:
[REDACTED]



Premier Aircraft Service, Inc.
Repair Station No. [REDACTED]

DATE: 6/12/2015
A/C TSN: 1017.3
ENG TT (L): 163.9
TACH: 1017.3

Datum, Unterschrift &
Lizenznummer:
Date, Signature &
license no.:

Left Engine Entries

(4) C/W ANNUAL INSPECTION ON LEFT ENGINE USING FAR 43 APPENDIX D AND DA42-TDI M/M CH.5 INSPECTION CHECKLIST AS A GUIDE.. SERVICED ENGINE WITH 6 LITERS OF AEROSHELL ULTRA DIESEL 5W30 AND NEW ENGINE OIL FILTER P/N 02-7250-033703R1. SERVICED ENGINE GEAR BOX WITH 1 LITER OF CENTURION GEARBOX OIL N1 AND NEW GEAR BOX FILTER P/N 03-7212-K004001. REMOVED AND REPLACED FUEL FILTER WITH NEW P/N 02-7310-04740R1. ENGINE WAS GROUND RUN AND LEAK CHECKED OK. ADS CHECKED THROUGH CURRENT ON ATP.... (8) C/W MSB 42-007/16. UPDATED LEFT ECU FIRMWARE TO P/N 02-7610-55101R14 AND MAPPING TO P/N 52-7610-E020501.

MAINTENANCE RELEASE: IN REFERENCE TO THE WORK PERFORMED, THIS AIRCRAFT, AIRFRAME, AIRCRAFT ENGINE, PROPELLER, AND / OR APPLIANCE WAS REPAIRED AND INSPECTED I.A.W. CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE. ALL WORK WAS PERFORMED IAW CURRENT APPLICABLE AIRCRAFT, ENGINE, OR APPLIANCE MAINTENANCE MANUALS AND INSTRUCTIONS. PERTINENT DETAILS ARE ON FILE AT THE REPAIR STATION OFFICE.

DATE: 6/12/2015

SIGNED

Work Order

Emmanuel [REDACTED]
Certified Repair Station No. [REDACTED]

Printed by EBis 3 [REDACTED]

Wartungsübersicht / Maintenance

Datum:
Date:

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ENGINE MODEL: TAE
125-02-99
ENGINE S/N (L):
02-02-03560
REG. NO: 215BN
WORK ORDER:



Premier Aircraft Service, Inc.

DATE: 6/29/2016
A/C TSN: 1098.8
ENG TT (L): 245.4
TACH: 1098.8

Left Engine Entries

(3) C/W (DA-42 2.0 ENG) ANNUAL INSPECTION ON LH ENGINE I.A.W. FAR 43 APPENDIX D AND USING DIAMOND 42 M/M CHAPTER 5 INSPECTION CHECK LIST AND CENTURION 2.0 OM-02-02 CH 6.2 OPERATION MANUAL AS A GUIDE. SERVICED ENGINE WITH 6 LITERS OF AEROSHELL ULTRA DIESEL 5W30 AND NEW ENGINE OIL FILTER P/N 02-7250-033703R1. SERVICED ENGINE GEAR BOX WITH 1 LITER OF CENTURION GEARBOX OIL N1 AND NEW GEAR BOX FILTER P/N 03-7212-K004001. REMOVED AND REPLACED FUEL FILTER WITH NEW P/N 02-7310-04740R1. ENGINE WAS GROUND RUN AND LEAK CHECKED OK. ADS CHECKED THROUGH CURRENT ON ATP.... (15) C/W AD 2015-21-01 INSTALLATION OF START PHASE MONITORING SYSTEM AND SOFTWARE MAPPING ON LH ENGINE.... (36) ADJUST AND REPOSITION MAP LINE TO ECU AS REQUIRED. PERFORMED ENGINE GROUND RUN. OPS CHECKED GOOD.

I CERTIFY THIS AIRFRAME, ENGINE, OR PROPELLER HAS BEEN INSPECTED IAW AN ANNUAL INSPECTION AND WAS DETERMINED TO BE IN AIRWORTHY CONDITION

DATE: 6/29/2016

SIGNED

Work Order

SAMUEL TAVAREZ JR.
CRS#

Printed by EBis 3

Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560
22 May 2017 Tach = 1193.7 and TSN = 340.3

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V4/R8 and RM-02-01 V2/R2. Run up and leak checks were satisfactory.

Brian S. Fisher AP IA

Austausch von Ausrüstungsteilen / Exchange of equipments

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Left Engine logbook entry for N215BN

Engine model TAE 125-02-99 S/N 02-02-03560

13 July 2017 Tach = 1293.3 and TSN = 439.9

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V4/R8 and RM-02-01 V2/R2. Run up and leak checks were satisfactory.

Brian S. Fisher AP [Redacted] IA

Left Engine logbook entry for N215BN

Engine model TAE 125-02-99 S/N 02-02-03560

10 August 2017 Tach = 1342.6

Installed serviceable starter P/N 05-8010-E0002803 in accordance with RM-02-02 Revision 2 section 80-10.01. Operational check was normal.

Brian S. Fisher AP [Redacted] IA

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Datum, Unterschrift & Lizenznummer:

Date, Signature & license no.:

Wartungsübersicht / Maintenance record

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Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560

7 March 2018 Tach = 1356.2

Installed new gearbox P/N 05-7212-K041703, S/N 03024 in accordance with RM-02-02 issue 2 revision 2 Section 75-10.15. Inspected dual mass flywheel in accordance with RM-02-02 issue 2 revision 2 Section 05-20.02. Serviced gearbox with 1 liter of Centurion N1 gearbox oil. Run up and leak checks were satisfactory.

Brian S. Fisher AP [redacted] A

Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560

24 May 2018 Tach = 1390.9 and TSN = 537.5

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1.5 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V4/R8 and RM-02-01 V2/R2. Run up and leak checks were satisfactory.

Brian S. Fisher AP [redacted] A

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Part no.:

Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560
19 July 2018 Tach = 1452.4

Completed following items IAW RM-02-02 Issue 3 per applicable chaps as noted.

1. CW AD 2010-06-12 R1, Rail pressure control valve by installation of new valve P/N 05-7320-E000703 IAW Chapter 73-10.08. AD is due again at 2052.4
2. Installed new alternator P/N 05-7150-E000601, S/N 00246 per Chapter 71-50.01.
3. Installed new fuel feed pump P/N 05-7312-K01330, S/N 10015 per chapter 73.10.03.
4. Installed new high pressure pump P/N 05-7312-K005305, S/N 0490 per Chapter 73-10.02.

Conducted run up, leak and operational checks all normal at this time.

Brian S. Fisher AP

Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560
28 August 2018 Tach = 1468.8

Installed serviceable starter P/N 02-8010-13220R2 per RM-02-02 I3/R17 chapter 80-10.01. Conducted run up, leak and operational checks all normal at this time.

Brian S. Fisher AP3 [REDACTED] IA

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license no.:*

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Wartungsübersicht / Maintenance record

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Left Engine logbook entry for N215BN

Engine model TAE 125-02-99 S/N 02-02-03560

13 September 2018 Tach = 1484.6 and TSN = 631.2

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1.5 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V4/R8 and RM-02-01 V2/R2. Run up and leak checks were satisfactory.

/ Brian S. Fisher AP

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Left Engine logbook entry for N215BN

Engine model TAE 125-02-99 S/N 02-02-03560

18 September 2018 Tach = 1501.0

Installed serviceable starter P/N 05-8010-E002803 per RM 02-02 issue 3 R17 section 80-10.01. Operational check was normal,

/ Brian S. Fisher AP

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Left Engine logbook entry for N215BN

Engine model TAE 125-02-99 S/N 02-02-03560

30 October 2018 Tach = 1587.3 and TSN = 733.9

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1.5 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V4/R8 and RM-02-01 V2/R2. Run up and leak checks were satisfactory.

Brian S. Fisher AP [REDACTED] IA

Left Engine logbook entry for N215BN

Engine model TAE 125-02-99 S/N 02-02-03560

18 January 2019 Tach = 1684.9 and TSN = 831.5

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1.5 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V4/R11 and RM-02-02 V3/R21. Run up and leak checks were satisfactory.

Brian S. Fisher AP [REDACTED] IA

Left Engine logbook entry for N215BN

Engine model TAE 125-02-99 S/N 02-02-03560

18 March 2019 Tach = 1759.5

Complied with AD2011-05-06, fractured timing chain, by installation of timing chain exchange set P/N 05-9900-S000604 per service bulletin TM TAE 125-1010P1. All work was accomplished in accordance with chapter 72-30.02 of RM-02-02 V3/R23. Run up and leak checks were satisfactory.

Brian S. Fisher AP [REDACTED] A

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Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560
4 April 2019 Tach = 1777.5 and TSN = 924.1

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1.5 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V4/R11 and RM-02-02 V3/R21. Run up and leak checks were satisfactory.

Brian S. Fisher AP [REDACTED] IA

Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560
16 May 2019 Tach = 1864.7 and TSN = 1011.3

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V4/R11 and RM-02-02 V3/R21. Run up and leak checks were satisfactory.

Brian S. Fisher AP [REDACTED] IA

Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560
21 June 2019 Tach = 1965.9 and TSN = 1112.5

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V4/R11 and RM-02-02 V3/R21. Run up and leak checks were satisfactory.

Brian S. Fisher AP [REDACTED] IA

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left Engine logbook entry for N215BN
 Engine model TAE 125-02-99 S/N 02-02-03560
 28 June 2019 Tach = 1980.7

Installed new starter P/N 05-8010-E002803 per RM-02-02 issue 3 R26
 chapter 80-10.01. Operational and leak check was normal.

Brian S. Fisher AP [REDACTED] A

Left Engine logbook entry for N215BN
 Engine model TAE 125-02-99 S/N 02-02-03560
 2 August 2019 Tach = 2060.8 and TSN = 1207.4

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V4/R11 and RM-02-02 V3/R21. C/W AD 2010-06-12 R1, Rail pressure control valve by installation of new valve P/N 05-7320-E000703, IAW RM-02-02 R5, Chapter 73-10.07. Run up and leak checks were satisfactory.

Brian S. Fisher AP [REDACTED] A

Left Engine logbook entry for N215BN
 Engine model TAE 125-02-99 S/N 02-02-03560
 5 Sept 2019 Tach = 2153.6 and TSN = 1300.2

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V4/R11 and RM-02-02 V3/R21. Run up and leak checks were satisfactory.

Brian S. Fisher AP [REDACTED] A

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Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560
27 September 2019 Tach = 2201.9

Installed new high-pressure pump P/N 05-7312-K005303-AT, S/N 1214, per RM-02-02 issue 3, revision 26 chapter 73-10.02. Installed new fuel feed pump P/N 05-7312-K01330, S/N 11829 per RM-02-02 issue 3/revision 26, chapter 73-10.03. Drained coolant and serviced with new G48 coolant.

/ Brian S. Fisher AP [REDACTED] A

Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560
17 October 2019 Tach = 2231.1 and TSN = 1377.7

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil. Installed serviceable Fadec P/N 05-7610-E000201, S/N 4775. All work accomplished IAW OM-02-02 V4/R11 and RM-02-02 V3/R21. Run up and leak checks were satisfactory.

/ Brian S. Fisher AP [REDACTED] IA

Part no..

Brian S. Fisher AP [REDACTED] A

Brian S. Fisher AP

Brian S. Fisher AP

since inspection

Date, Signature & license no.:

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Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560
24 March 2020 Tach = 2437.9 and TSN = 1584.5

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil.. All work accomplished IAW OM-02-02 V4/R12 and RM-02-02 V4. Run up and leak checks were satisfactory.

Brian S. Fisher AP [REDACTED] A

Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560
15 April 2020 Tach = 2458.9

Installed new CAM A/B plugs using new parts per RI-05-0011. Conducted run up and operational checks normal at this time.

Brian S. Fisher AP

Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560
16 June 2020 Tach = 2540.1 and TSN = 1686.7

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil.. All work accomplished IAW OM-02-02 V4/R12 and RM-02-02 V4. Run up and leak checks were satisfactory. [REDACTED]

Brian S. Fisher AP [REDACTED] A

Austausch von Ausrüstungsteilen / Exchange of equipments

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Left Engine logbook entry for N215BN

Engine model TAE 125-02-99 S/N 02-02-03560

10 September 2020 Tach = 2640.2 and TSN = 1786.8

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil.. All work accomplished IAW OM-02-02 V4/R12 and RM-02-02 V4. Run up and leak checks were satisfactory.

/ Brian S. Fisher AP [REDACTED] A

Left Engine logbook entry for N215BN

Engine model TAE 125-02-99 S/N 02-02-03560

21 September 2020 Tach = 2659.1

Complied with AD 2010-06-12, rail pressure reducing valve by installation of new valve P/N 05-7320-E000703, AD is due again at 3259.1. All work was accomplished per RM-02-02-I5-R0 chapter 39-40.08. Run up, leak check, and operational checks were normal.

/ Brian S. Fisher AP [REDACTED] IA

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Date, Signature &
license no.:

Right Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03575

27 November 2020 Tach = 2662.0

Datum:
Date:

B

Complied with AD 2011-05-06, fractured timing chain, by installation of new timing chain kit 05-9900-S000605. All work was accomplished per RM-02-02-I5-R0 chapter 72-30.02. AD is due again at 3572.0. Installed new coolant hose P/N NM-0000-0169101 on cabin heat exchanger to gearbox oil cooler. Run up, leak check, and operational checks were normal.

Brian S. Fisher AP [REDACTED] A

Left Engine logbook entry for N215BN
Engine model TAE 125-02-99 S/N 02-02-03560

27 November 2020 Tach = 2662.0

Complied with AD 2011-05-06, fractured timing chain, by installation of new timing chain kit 05-9900-S000605. All work was accomplished per RM-02-02-I5-R0 chapter 72-30.02. AD is due again at 3572.0. Installed new injector P/N 05-3940-K001602 in #4 position. All was accomplished per RM-02-02-I5-R0 chapter 73-10.05. Run up, leak check, and operational checks were normal.

Brian S. Fisher AP [REDACTED] A

Part no.:

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil. Installed new NM-0000-0162301 clamp on coolant radiator pipe. All work accomplished IAW OM-02-02 V4/R12 and RM-02-02 V4. Run up and leak checks were satisfactory.

Brian S. Fisher AP

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 I5/R2 and RM-02-02 I5. Run up and leak checks were satisfactory.

✓ Brian S. Fisher AP

Drained oil and serviced with 5.5 liters of Aeroshell Ultra. Installed new 05-7253-K004401 oil filter. Installed new gearbox oil filter P/N 03-7212-K004001 and serviced gearbox with 1 liter of Centurion N1 gearbox oil. All work accomplished IAW OM-02-02 V5/R2 and RM-02-02 V5. Run up and leak checks were satisfactory.

Brian S. Fisher AP [REDACTED] A

Datum, Unterschrift & Lizenznummer:

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Date, Signature & license no.:

Austausch von Ausrüstungsteilen / Exchange of equipments

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