1.Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number.
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	310666
4. Organization Name and Address. StandardAero Business Aviation Services, LLC [redacted]		5. Work Order/Contract/ Invoice Number: 310666

6. Item:	7. Description:	8. Part Number:	9. Quantity	10. Serial Number:	11. Status/Work:
1	TPE331-11U-612G	3102540-8	1	P-44112C	REPAIRED

12.Remarks:
C/W A 3500 HOUR HOT SECTION AND GEARBOX INSPECTION. INSTALLED ON DYNO AND C/W WITH ALL REQUIRED ENGINE RUNS INCLUDING, VIBRATION SURVEY, LEBOW TORQUE CALIBRATION, LEAK CHECKS, OPS CHECKS, E.G.T RECOMPENSATION, DRAINED ENGINE OIL AND PREPARED FOR SHIPMENT I/A/W THE TPE331-11U MM 72-00-25 REV. 14 AS PER S/B 72- 0180 REV. 35 .
TSN:23240.3 CSN:20356

WARNING. FUEL SYSTEM PRESERVED. DEPRESERVATION PROCEDURES MUST BE PERFORMED I/A/W THE MAINTENANCE MANUAL.

I certify that the work specified in block 11/ 12 was carried out in accordance with EASA Part-145 and in respect to that work the aircraft component is considered ready for release to service under EASA Approval certificate number EASA.145.4973.

13a. Certifies the item identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12		14a. ☒ 14 CFR 43.9 Return to Service ☒ Other regulation 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 Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.	
13b. Authorized Signature:	13c. Approval/Authorization No:	14b. Authorized Signature: [redacted]	14c. Approval/Certificate No: [redacted]
13d. Name (Type or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): KEVIN K. GUY	14e. Date (dd/mmm/yyyy): 17/SEP/2014

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country 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.

StandardAero
[redacted]
FAA Repair Station No. [redacted]

Date:09/17/2014 Engine S/N:P-44112C Total Time:23240.3 Total Cycles:20356

Engine Model: TPE331-11U-612G Engine P/N: 3102540-8

The following inspection(s) have been accomplished I/A/W the current 331 Manuals:

3500 HOUR HOT SECTION INSPECTION @23240.3	3500 HOUR GEARBOX INSPECTION @23240.3	7000 HOUR CAM/OVERHAUL INSPECTION @19847.1	12 MONTH CORROSION INSPECTION @09/2014	3700HR. FUEL CONTROL & FUEL PUMP INTEGRITY INSPECTION @23240.3	1000HR. FUEL PUMP SPLINE INSPECTION @N/A

NEXT T.B.O. INSPECTION INTERVALS DUE AT:

26740.3	26740.3	26847.1	09/2015	26940.3	N/A

All service bulletins and airworthiness directives accomplished at this time are listed in the appropriate sections of this logbook. Parts replaced are listed on the following page(s). Life limit cards when required for parts installed are found in the appropriate sections of this logbook.

==========

C/W	Performance Run
C/W	Lebow Procedure
C/W	Vibration Survey
C/W	Oil has been drained
N/A	Oil has been drained and serviced with N/A
DUE	S.O.A.P. sample to be taken after initial 25 eng. operating hrs. (23255.3

N/A=not applicable C/W=complied with DUE=to be done at time specified

C/W A 150/200/300/400/450/800 HOUR PERIODIC INSPECTION.
ENGINE CONFIGURED FOR 7000 HOUR CAM OPERATION WITH
OR WITHOUT 3500 HOUR GEARBOX INSPECTION I/A/W
S/B 72-0180 REV. 35.
WARNING. FUEL SYSTEM PRESERVED. DEPRESERVATION PROCEDURES
MUST BE PERFOMRMED I/A/W THE MM.

Disassembled this engine as required to C/W A 3500 HOUR HOT SECTION AND GEARBOX INSPECTION I/A/W THE TPE331-11U MM 72-00-25 REV. 14 AS PER S/B 72-0180 REV. 35.
I certify this engine has been inspected and work described above found airworthy for return to service per FAR 91.409(F), (3).
Details on file under W/O310666.

[redacted] for
StandardAero CRS No. [redacted]

PERFORM N.T.S. SYSTEM CHECK I/A/W AIRCRAFT FLIGHT MANUAL BEFORE RETURN TO SERVICE.

(CONTINUED)

Parts Change Record

Date 9/17/2014

Work Order 310666

Engine Serial Number P 44112C

QTY	NOMENCLATURE	PART NUMBER	PART SERIAL
1 (NEW)	INNER TRANSITION LINER	3101524-6	NSN
1 (NEW)	1ST TURBINE SUPPORT	3101525-2	NSN
1 (NEW)	EXHAUST NOZZLE	3101582-8	NSN
1 (NEW)	SCAVENGE PUMP DRIVE SHAFT	3102270-4	NSN
2 (NEW)	FUEL MANIFOLD	3102469-2	NSN
1 (NEW)	3RD STAGE TURBINE ROTOR DISK	3102655-2	10-156101-01588
12 (NEW)	1ST STAGE SHROUD SEGMENT	3103128-2	NSN
1 (NEW)	SEAL RING	3103165-1	NSN
10 INSP	FUEL NOZZLE	3103235-11	NSN
2 (NEW)	TURBINE RETENTION PINS	3103243-2	NSN
8 (NEW)	1ST STAGE NOZZLE SEGMENT	3103820-4	NSN
1 (NEW)	STARTER DRIVE INSERT	3103828-1	NSN
1 O/H	TORQUE RING	3107034-11	9P104
1 (NEW)	COMPRESSOR SEAL/ROTOR KIT	3107051-5	NSN
1 (NEW)	COMBUSTOR	3108322-5	14-3300-01421
1 (NEW)	IGNITOR LEAD	369876-24	NSN
1 (NEW)	IGNITOR LEAD	369876-28	NSN
2 (NEW)	IGNITOR	369949-3	NSN
1 (REPR)	PROP PITCH CONTROL	70000298-20	P-4753C
1 (NEW)	NTS VALVE ASSY	70100012-1	14P51262
2 (NEW)	PLENUM DRAIN VALVE	868889-1	NSN
1 (NEW)	REAR TURBINE SEAL	896494-3	14-152826-56148
1 (NEW)	TURBINE SEAL ROTOR	896549-2	NSN

[redacted]

StandardAero

[redacted]

CD AVIATION SERVICES

[redacted]

Engine **TPE331-11U-612G** P/N **3102540-8** S/N **P-44112C** TSN: **23,240.3** CSN: **20,356**

Completed engine Preservation in accordance with Honeywell Maintenance Manual 72-00-25 Rev 14 (31-Jan-12). Engine requires 30 day visual humidity indicator checks.

"MAINTENANCE RELEASE"
The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was approved for return to service only with regard to the work performed. Pertinent details of the repair/inspection are on file at this Repair Station under

WO#4069 Date 09 April 2015

Signed [redacted]
FAA REPAIR STATION NO. [redacted]

Gearbox
Compressor
Service Bulletin Record
Airworthir Directiv
Modules
Nose Cone
Intermediate Gearbox

CD AVIATION SERVICES

[redacted]

Engine **TPE331-11U-612G** P/N **3102540-8** S/N **P-44112C** TSN: **23,240.3** CSN: **20,356** TSCAM: **0.0** CSCAM: **0**

Disassembled, cleaned, inspected, and re-assembled engine for 5,000 hour AG CAM inspection in accordance with Honeywell MM 72-00-25 Rev 14 (31-Jan-12) and SB 72-0180 Rev 35. Engine is configured for the 5,000 Hour AG CAM Interval. Performed all applicable Periodic Inspections through 450 Hour in accordance with SB 72-0180 Rev 35 (2-Apr-14).

Installed the following life limited items: Compressor Bearing PN 3103708-1 SN 12-162111-08782 (TSN 0.0), 1st Stage Turbine Hub PN 3107079-1 SN 3-03501-4037 (CSN 12,941), Turbine Bearing PN 3108098-1 SN 15-162111-08271 (TSN 0.0).

Installed the following accessory items: Fuel Control PN 897780-15 SN 2173628 (TSO 0.0), Fuel Pump PN 897400-5 SN P-3126C (TSO 0.0), Prop Governor PN 897410-16 SN 1996918 (TSO 0.0), Prop Pitch Control PN 70000298-20 SN P-2905C (TSO 0.0), Fuel Shutoff Valve PN 394230-9-1 SN P-7071C (TSO 0.0), Fuel Nozzles PN 3103235-9 (TSO 0.0).

Completed NTS Trip System Check, Seal Break-In Procedure, Recompensation Test, Lebow Torque Ring Calibration and Vibration Scan in accordance with Honeywell MM 72-00-25 Rev 14 (31-Jan-12). Completed operational and leak checks. SHP 1113 @ -34°F Maximum Trim Compensation. SHP 1050 @ 8°F Minimum Trim Compensation. Bridge No. 1 settings are: -27.335 mV, +4.961 Volts @ 161°F Oil Temperature. Bridge No. 2 settings are: -27.115 mV, +4.977 Volts @ 158°F Oil Temperature. Completed Satisfactory Vibration Scan. Gearbox Overall IPS @ 0.767. Hot Section Overall IPS @ 0.306.

See appropriate section of engine log book for Service Bulletin Compliance, Airworthiness Directive Compliance and Bearing Installation Record.
Engine oil system drained and engine fuel system was preserved in accordance with the applicable Honeywell Maintenance Manual.

Engine requires NTS flight check
Engine requires SOAP within 25 flight hours

"MAINTENANCE RELEASE"
The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was approved for return to service only with regard to the work performed. Pertinent details of the repair/inspection are on file at this Repair Station under

WO#4223 Date 13 October, 2015

Signed [redacted]
FAA REPAIR STATION NO. [redacted]

Note to Operators to be aware of: S/B 72-2148 rev. 0, NTS Valve and S/B 72-2178 rev. 0, To Incorporate Plenum Inspection into maintenance program. Complied with SB 72-2235. Installed New Plenum PN 70100073-2 SN 14-3300-00293.

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG**	CDAS-4223-1
4. Organization Name and Address: CD AVIATION SERVICES	Carpe Diem Aviation Services of Missouri, Inc. DBA: CD Aviation Services [redacted]	5. Work Order/Contract/Invoice Number: **4223**

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	TPE331-11U-612G	3102540-8	1	P-44112C	Repaired

12. **Remarks:** TSN: **23,240.3** CSN: **20,356** TSCAM: **0.0** CSCAM: **0**
Disassembled, cleaned, inspected, and re-assembled engine for 5,000 hour AG CAM inspection in accordance with Honeywell MM 72-00-25 Rev 14 (31-Jan-12) and SB 72-0180 Rev 35. Performed all applicable Periodic Inspections through 450 Hour in accordance with SB 72-0180 Rev 35 (2-Apr-14).

Completed NTS Trip System Check, Seal Break-In Procedure, Recompensation Test, Lebow Torque Ring Calibration and Vibration Scan in accordance with Honeywell MM 72-00-25 Rev 14 (31-Jan-12). Completed operational and leak checks.

This repair station certifies that work specified in Block 11/12 was carried out in accordance with EASA 145 and with respect to that work, the article is considered ready for release to service under EASA Approval Number EASA.145.5186.

13a. Certifies the items identified above were manufactured in conformity to:

☐ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

14a. ☒ **14 CFR 43.9 Return to Service** ☒ **Other regulation 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 Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature: [redacted]	14c. Approval/Certificate No.: [redacted]
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): Billy E. Cupps [redacted]	14e. Date (dd/mmm/yyyy): 22 Oct 2015

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country 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.

Gearbox | Compressor | Service Bulletin Record | Airworthir Directiv | Modules | Nose Cone | Intermediate Gearbox

CD AVIATION SERVICES

FAA Certified Repair Station# [redacted]

Work Order:	**4223**	**TSN**	**23,240.3**
Date:	**20-Oct-15**	**CSN**	**20,356**
Engine P/N:	**3102540-8**	**TSCAM**	**0.0**
Engine Model:	**TPE331-11U-612G**	**CSCAM**	**0**
Engine S/N:	**P-44112C**		

Maintenance Program					
AG CAM Interval	5,000.0	GBI Required		No Mid Life	
Hot Section Total Time	0.0	Hot Section Time Remaining	2,500.0	2,500.0	± 100 Hours
Gearbox Total Time	0.0	Gearbox Time Remaining	5,000.0	5,000.0	± 100 Hours

COMPONENT CYCLE COUNT -10/-11 **Ref SB 72-0180**

DESCRIPTION	P/N	S/N	TOTAL CYCLES	CYCLES REMAINING	TOTAL HOURS
Compressor					
1st Impeller	3108182-2	070350104998	2,803	27,197	3,393.2
DESCRIPTION	**P/N**	**S/N**	**TOTAL CYCLES**	**INSP REQUIRED @**	**TOTAL HOURS**
2nd Impeller	893482-5	08-03229-00522	2,803	NR	3,393.2
DESCRIPTION	**P/N**	**S/N**	**TOTAL CYCLES**	**CYCLES REMAINING**	**TOTAL HOURS**
Turbine					
1st Turbine Wheel Assy	3108164-2	3-03501-4037	12,941	7,059	10,859.3
1st Turbine Hub	3107079-1	3-03501-4037	12,941	7,059	10,859.3
1st Turbine Blades	3108125-1	Various	0	N/A	0.0
2nd Turbine Wheel	3102106-10	060134512925	2,803	12,197	3,393.2
3rd Turbine Wheel	3102655-2	10-156101-01588	0	6,000	0.0
Seal Plate Assembly	3102484-1	07-03501-11326	2,803	N/A	3,393.2
Seal Plate	3102483-1	07-03501-11326	2,803	17,197	3,393.2

No log card

Intermediate Gearbox | Nose Cone | Modules | Airworthir Directiv | Service Bulletin Record | Compressor | Gearbox

Name	Part Number	Serial Number	Component T.S.O.	Time Remaining hours	
Fuel Control	897780-15	2173628	0.0	5,000.0	± 100 Hours
Fuel Pump	897400-5	P-3126C	0.0	5,000.0	± 100 Hours
Fuel Shutoff Valve	394230-9-1	P-7071C	0.0	5,000.0	± 100 Hours
Prop Pitch Control	70000298-20	P-2905C	0.0	5,000.0	± 100 Hours
Prop Governor	897410-16	1996918	0.0	5,000.0	± 100 Hours
Temp Limiter	897457-5	08-25685-00094	2,616.3	2,383.7	± 100 Hours
Name	**Part Number**	**Serial Number**	**Time Since Change**	**Time Remaining hours**	
Fuel Nozzles	3103235-X	Various	0.0	350.0	CDAS recommends Clean and Flow Check at 200 hour Interval for AG only.
Name	**Part Number**	**Serial Number**	**Component Time Since S/B 72-2148**	**Time Remaining hours**	
NTS Valve	70100012-1	14P51262	0.0	5,000.0	± 100 Hours
Name	**Part Number**	**Serial Number**	**Component T.S.N.**	**Time Remaining hours**	
Bearings					
Compressor	3103708-1	12-162111-08782	0.0	9,000.0	± 100 Hours
FCU Idler gear	3108041-2	070633118524	3,393.2	10,606.8	± 100 Hours
Starter Gear Shaft	358206	14-162255-18048	0.0	9,000.0	± 100 Hours
Starter Gear Shaft	358206	14-162255-18047	0.0	9,000.0	± 100 Hours
Idler Gear Shaft	358272	15-162255-04250	0.0	9,000.0	± 100 Hours
Hydraulic Gear Shaft	358272	15-162255-04238	0.0	9,000.0	± 100 Hours
Hydraulic Gear Shaft	358272	15-162255-04248	0.0	9,000.0	± 100 Hours
Tach Gear Assembly	358894-1	MS14-151725-08129	0.0	9,000.0	± 100 Hours
Tach Gear Assembly	358272	15-162255-04249	0.0	9,000.0	± 100 Hours
Idler accessory gear	3103585-1	15-151725-04717	0.0	9,000.0	± 100 Hours
Torque Sensor Duplex Set / 11U Idler accessory gear	3103585-1	15-151725-04712	0.0	9,000.0	± 100 Hours
Turbine	3108098-1	15-162111-08271	0.0	9,000.0	± 100 Hours

NOTES: Verification has been made that the above items conforms to Model Number, Part Number and the engine effective code. Quality review [redacted]

Engine Serial : 44112

RICK GIBBS
CD AVIATION SERVICES
[redacted]

S.O.A.P.
SPECTROMETRIC OIL ANALYSIS PROGRAM
For Honeywell

REPORT DATE : 10/22/2015
CONTACT PHONE : [redacted]
CONTACT EMAIL : [redacted]
FAX NUMBER : [redacted]

Jet-Care Internati[redacted]

ENGINE MODEL : TPE331-11U-612G
AIRCRAFT TYPE :
AIRCRAFT SERIAL :
OIL TYPE : BPTO 2380
SERVICE CONTRACT# :

CURRENT **SEND IN ANOTHER SAMPLE IN 25 HOURS (+/- 20%) AND CONTINUE FLIGHTS; RESAMPLE RESULTS MAY DICTATE MORE ACTION.**

Reviewed by: Brian Ferrell, Honeywell Engr

LAB DATE 10/22/2015
SAMPLE DATE 10/20/2015
RESP EMP Andrew Dwyer
TSN 23240
TSO 0
CYCLES 20356
OIL HOURS 2
FILTER HOURS 2
FILTER WEIGHT 22 MGS
RECOMMEND **Re-Sample Continue**

FILTER RESULTS ANALYSIS PER WORK INSTRUCTIONS MLTC WI 1440.

	ST ST	CB ST	AL ST	M50	COPR	SILV	MAGN	ALUM	GRIT	MISC
AMT		TR			TR	TR		TR	MA	MI
TYPE										SG
FORM						FL				FN

OIL RESULTS ANALYSIS PER WORK INSTRUCTIONS MLTC WI 1437.

FE	CU	NI	CR	AG	MG	AL	PB	BE	S
0.8	0.1	<1	<1	<1	0.6	<1	<1	<0.02	

TAN	WATER	VISCOSITY	RULER	FLASHPOINT

LAB CODE : Q SAMPLE NUMBER : 1812 CONTACT CODE : TBRG

OIL AND FILTER ANALYSIS FINDINGS

FILTER MG OVER MAXIMUM

MAINT PERFORMED :5000 HR AG CAM - PMA FILTER
LAB COMMENTS :

PREVIOUS **NORMAL SAMPLE. CONTINUE SENDING SAMPLES AT THE RECOMMENDED INTERVAL.**

Reviewed by: Robin Humes, Honeywell Engr

LAB DATE 09/22/2014
SAMPLE DATE 09/18/2014
RESP EMP Mike Yazar
TSN 0
TSO 3
CYCLES 0
OIL HOURS 3
FILTER HOURS 3
FILTER WEIGHT 10 MGS
RECOMMEND **Normal**

FILTER RESULTS ANALYSIS PER WORK INSTRUCTIONS MLTC WI 1440.

	ST ST	CB ST	AL ST	M50	COPR	SILV	MAGN	ALUM	GRIT	MISC
AMT		TR				TR		TR	MA	
TYPE										
FORM										

OIL RESULTS ANALYSIS PER WORK INSTRUCTIONS MLTC WI 1437.

FE	CU	NI	CR	AG	MG	AL	PB	BE	S
2.4	0.3	<1	<1	<1	0.2	<1	<1	<0.02	

TAN	WATER	VISCOSITY	RULER	FLASHPOINT

LAB CODE : Q SAMPLE NUMBER : 1765 CONTACT CODE : X03001

OIL AND FILTER ANALYSIS FINDINGS

MAINT PERFORMED :
LAB COMMENTS :HIGH CARBON

PREVIOUS **SEND IN ANOTHER SAMPLE IN 25 HOURS (+/- 20%) AND CONTINUE FLIGHTS; RESAMPLE RESULTS MAY DICTATE MORE ACTION.**

Reviewed by: Robin Humes, Honeywell Engr

LAB DATE 06/18/2014
SAMPLE DATE 06/14/2014
RESP EMP Elizabeth Friga
TSN 23232
TSO 0
CYCLES 20349
OIL HOURS 693
FILTER HOURS 14
FILTER WEIGHT 5 MGS
RECOMMEND **Re-Sample Continue**

FILTER RESULTS ANALYSIS PER WORK INSTRUCTIONS MLTC WI 1440.

	ST ST	CB ST	AL ST	M50	COPR	SILV	MAGN	ALUM	GRIT	MISC
AMT		TR				TR		TR	MA	
TYPE										
FORM										

OIL RESULTS ANALYSIS PER WORK INSTRUCTIONS MLTC WI 1437.

FE	CU	NI	CR	AG	MG	AL	PB	BE	S
3.1	0.2	<1	<1	<1	16.6	<1	1	<0.02	

TAN	WATER	VISCOSITY	RULER	FLASHPOINT

LAB CODE : Q SAMPLE NUMBER : 1677 CONTACT CODE : IAHH

OIL AND FILTER ANALYSIS FINDINGS

HIGH MAGNESIUM IN OIL

MAINT PERFORMED :
LAB COMMENTS :OIL NEEDS TO BE DRAINED, RESERVICE AND RESAMPLE IN 25 HOURS (RH).

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For 24-Hour/7-Day technical expert troubleshooting, please contact the Technical Operations Center [redacted]

Honeywell Zing®
Intelligent Monitoring Network

Intermediate Gearbox | Nose Cone | Modules | Airworthir Directiv | Service Bulletin Record | Compressor | Gearbox

ENGINE ☒
MODULE ☐
SERIAL NUMBER P-44112C

SERVICE RECORD

PAGE _____

DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS
ENDORSE ALL INSPECTIONS AND REPAIRS WITH NAME, RATING AND CERTIFICATE NUMBER.

DATE	HOURS THIS FLIGHT	CYCLES THIS FLIGHT	ACCUMULATIVE TOTALS				DESCRIPTION OF WORK PERFORMED
			HOURS		CYCLES		
			SINCE NEW	SINCE O/H	SINCE NEW	SINCE O/H	
							TOTALS BROUGHT FORWARD
3/28/16	HOBBS	0.0	23,240.3	0.0	20,356	0	INSTALLED ENGINE IN N931CK, MIELE M18A, S/N 12018-01 IAW STC SA01361SE, BALANCED PROPELLER IAW CHADWICK SMOOTH PROPELLER INSTRUCTIONS, SERVICE WITH BP2380, THIS ENGINE IS AIRWORTHY FOR RETURN TO SERVICE. [redacted]
							TOTALS TO DATE

PX-3107-51

CD AVIATION SERVICES [redacted]

Engine Model:TPE331-11U-612G Part Number:3102540-8 S/N:P-44112C Hobbs:23.8

- Completed 25 hour post maintenance SOAP sample.
- Installed new condition oil filter P/N 3001436-1.
- **Requires leak Check.**
- All maintenance performed in accordance Honyewell MM 72-00-25 Rev. #14 dated 31/JAN/2012.

"MAINTENANCE RELEASE"

The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was approved for return to service only with regard to the work performed. Pertinent details of the repair/inspection are on file at this Repair Station under

WO#: 4420 Date: May. 11, 2016

Signed [redacted]

FAA REPAIR STATION NO. [redacted]

Gearbox | Compressor | Service Bulletin Record | Airworthir Directiv | Modules | Nose Cone | Intermediate Gearbox

ENGINE ☐
MODULE ☐
SERIAL NUMBER _____

SERVICE RECORD

PAGE _____

DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS
ENDORSE ALL INSPECTIONS AND REPAIRS WITH NAME, RATING AND CERTIFICATE NUMBER.

CD AVIATION SERVICES [redacted]

Engine Model:**TPE-331-11U-612G** Engine S/N:**P-44112C** Hobbs: **97.5**
A/C Model: **M18A** Reg.#:**N9310R** A/C S/N: **1Z018-01**

- Removed and replaced strain gauge Packing.
- Completed operational and leak check.
- All maintenance performed in accordance with **Honeywell MM 72-00-25 Rev. #14 dated 31/JAN/2012**.

"MAINTENANCE RELEASE"
The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was approved for return to service only with regard to the work performed. Pertinent details of the repair/inspection are on file at this Repair Station under

WO#__4582_____ Date _02/NOV/2016_____

Signed [redacted]
FAA REPAIR STATION NO. [redacted]

4/15/17 Hobbs 97.5 Completed SOAP 11/15/16 Changed fuel filters engine & firewall, turned down FUEL FLOW 7 clicks CCW
Checked Plenum & Compressor drains, Checked fuel Manifold screen, Inspected Engine per SB 72-0180, Replaced
started/Generator Part# 23079-009, Serial# 5681. I Certify that this Engine has been Inspected IAW AD 100hr.
inspection and is found to be in airworthy condition. A+P [redacted]

THIS CERTIFIES THAT THE TYPE OF INSPECTION LISTED AND SIGNED OFF IS IN ACCORDANCE WITH THE MANUFACTURER'S INSPECTION INSTRUCTIONS AS DEFINED IN CURRENT APPLICABLE MAINTENANCE MANUAL.

PX-3107-51 BACK

9310R

AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States		CD Aviation Services 71457 -10
		5. Work Order/ Contract/Invoice Number: P.O.# MR5915

4. Organization Name and Address: Tennessee Aircraft Co [redacted]

6. Item:	7. Description:	8. Part Number:	9. Qty.:		tus/Work:
1	Duplex Nozzle Set	3103235- 11	10	See Remarks	OVERHAULED

12. Remarks:

UNIT S/N	SHROUD S/N
#1 IRK03605	#1 020416805490
#2 IRP04374	#2 040416808313
#3 IRP04271	#3 000416801379
#4 10-169016-09262	#4 10-169016-09498
#5 IRP04272	#5 ISM06376
#6 INS02847	#6 060416801789
#7 IRP04266	#7 040416807020
#8 040416809139	#8 100416801649
#9 12-169016-06632	#9 363367
#10 10T20915	#10 070416803706

Overhaul and Tested as per Honeywell/Garrett Fuel Nozzle Assembly Overhaul Manual, Garrett P/N 3103235, Report No. 73-10-19, Rev. 1, Jan 15, 1992 In compliance with ServiceBulletin TPE331-73-0284 Rev. 1, Feb 27, 2015 including TR 73-7 of the OHM. Certifies that the work specified in block 11/12 was carried out in accordance with EASA 145 and with respect to that work the aircraft component is considered ready for release to service under EASA Acceptance Certificate Number EASA 145.5691

13a. Certifies the items identified above were manufactured in conformity to:

☐ Non-approved design data specified in Block 13

14a.

☒ 14 CFR 43.9 Return to Service

☒ Other regulation 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 Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

15. Authorized Signature

16. Approval/Authorization No.

17. Name (Typed or Printed)

18. Date (dd/mmm/yyyy)

[redacted]

14c. Approval/ Certificate No.: [redacted]

14e. Date (dd/mmm/yyyy): 02 Jan 2018

User/Installer Responsibilities

It is important to understand that the existence of this Document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer work in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in Block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in Block 1.

Statements in Block 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.

CERTIFIED COPY
This is a true, complete photocopy.
Original will be maintained at this place of business.
In[redacted] Date 1/16/18

FAA Form 8130-3 (02-14)

NSN:0052-00-012-9005

Gearbox Compressor Service Bulletin Record Directiv

ENGINE ☐
MODULE ☐
SERIAL NUMBER _____

SERVICE RECORD

PAGE _____

DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS
ENDORSE ALL INSPECTIONS AND REPAIRS WITH NAME, RATING AND CERTIFICATE NUMBER.

DATE	HOURS THIS FLIGHT	CYCLES THIS FLIGHT	ACCUMULATIVE TOTALS HOURS SINCE NEW	HOURS SINCE O/H	CYCLES SINCE NEW	CYCLES SINCE O/H	DESCRIPTION OF WORK PERFORMED
							TOTALS BROUGHT FORWARD
4/15/2017	Hobbs 97.5		Engine # 23,240.3			TSOH 97.5	I certify that this engine has been inspected
	F/A/W An		Annual inspection				And is determined to be in Airworthy Condition
							[redacted] A+P [redacted] IA

CD AVIATION SERVICES

[redacted]

A/C Make:**Dromader** A/C Model: **M-18A** Reg.#: **N9310R** A/C S/N: **1Z018-01** Hobbs: **243.6**
Engine Model: **TPE331-11U-612G** Engine P/N: **3102540-8** Engine S/N: **P-44112C**

- Completed 400 hr periodic inspection IAW **SB 72-0180**
- Completed Fuel nozzle R&R with overhauled set of P/N 3103235-11 Fuel nozzles
- Completed SOAP Sample.
- Completed and accepted prop balance to **.00 IPS**
- Completed operational and leak check.
- All maintenance performed in accordance with Current Dromader AMM and HMM 72-00-25 Rev. 14 dated (3/Jan/2012)

"MAINTENANCE RELEASE"
The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was approved for return to service only with regard to the work performed. Pertinent details of the repair/inspection are on file at this Repair Station under

WO# **4977** Date **2/Feb/2018**

Signed [redacted]

FAA REPAIR STATION NO. [redacted]

TOTALS TO DATE

PX-3107-51

SERVICE RECORD

PAGE ____

DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS
ALL INSPECTIONS AND REPAIRS WITH NAME, RATING AND CERTIFICATE NUMBER.

OFF IS IN ACCORDANCE WITH THE MANUFACTURER'S INSPECTION INSTRUCTIONS
T APPLICABLE MAINTENANCE MANUAL.

PX-3107-51 BAC

ENGINE ☐

CD AVIATION SERVICES

[redacted]

A/C Make:**Dromader** A/C Model: **M-18A** Reg.#: **N9310R** A/C S/N: **1Z01801** Hobbs: **376.9**
Engine Model: **TPE331-11U-612G** Engine P/N: **3102540-8** Engine S/N: **P-44112C**

- Completed 400 hr periodic inspection IAW **SB 72-0180**
- Completed Fuel nozzle R&R with overhauled set of P/N 3103235-11 Fuel nozzles
- Completed Oil change. Serviced with eastman 2380 Turbo oil.
- Completed SOAP Sample.
- Completed operational and leak check.
- All maintenance performed in accordance with Current Dromader AMM and HMM 72-00-25 Rev. 14 dated (3/Jan/2012)

"MAINTENANCE RELEASE"

The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was approved for return to service only with regard to the work performed. Pertinent details of the repair/inspection are on file at this Repair Station under

WO# 5340 Date 11/Dec/2018

Signed [redacted]

FAA REPAIR STATION NO. [redacted]

WO	5627
PN	3102540-8
SN	P-44112C
Date:	10-Dec-19

		Man/Rev/Date
ETSN:	23,805.3	HMM 72-00-25 Rev. 14 (31-Jan-12)
Model	TPE331-11U-612G	
Eff Code	HA	

Table 10 Periodic Inspections SB 72-0180

Hr Int	Inspection	Last Done	Next due	Model	Chapter/Sect/Action	Insp
100	Starter -gen drive spline Pre SB 72-0416	23,805.3	23,905.3	All	72-10-13	[redacted]
100	SOAP Analysis Pre SB A72-2115	23,805.3	23,905.3	-11U	72-00-00 (Refer to applicable Insp/Check Section) Refer to SB A79-0034	
150	Fuel Filter - R&R filter element	23,805.3	23,955.3	-11U	72-21-03	
150	Input gearbox drain	23,805.3	23,955.3	-11U	72-00-05 Check to make sure that drain is open. Use air to check drain port passage, as damage to crossover duct could result from the use of hard objects to check passages.	
150	Compensating Resistor Test temperature compensation value	23,805.3	23,955.3	-11U	72-00-00 (Refer to applicable Insp/Check Section)	
150	SOAP Analysis	23,805.3	23,955.3	All	79-20-02	
200	1st Stage Compessor Impeller Check for FOD	23,805.3	24,005.3	All	72-30-01	
200	Emergency Shut Down System Airframe Check			All	72-00-00 (Refer to applicable Insp/Check Section)	Operator
200	Starter -gen drive spline Pre SB 72-0416	23,805.3	24,005.3	All	72-10-13	[redacted]
200	Fuel Control/fuel pump integrity Pre SB 73-0127 or 73-0131	23,805.3	24,005.3	All	72-00-00 (Refer to applicable Insp/Check Section)	
200	SOAP & Oil Filter	23,805.3	24,005.3	All	72-00-00 (Refer to applicable Insp/Check Section)	
300	Overspeed Governor Operational Check -10-501K & -511K are excluded	23,805.3	24,105.3	All	72-00-00 (Refer to Adj/Test Section or Test Section)	
300	Underspeed Governor RPM response check	23,805.3	24,105.3	All Except -10T-515K, -511K	72-00-00 (Refer to Operational Checks Section.)	
300	NTS Trip System check	23,805.3	24,105.3	-11U	72-00-00 (Refer to Adj/Test Section or Test Section)	
300	Fuel Manifold Purge System Filter Remove & Clean filter element	23,805.3	24,105.3	All	73-10-13	
300	Plenum drain valves (installed)	23,805.3	24,105.3	All	Check operation of plenum drain valves without removing from engine as follows: with engine not operting, plenum drain valves should be open. Open position may be assured if air passes freely trhough valve when slight air pressure is applied at the attached drain tubes.	
400	Engine oil change			All	72-00-00 (Refer to Servicing Section)	Operator
400	Electrical wiring and connections	23,805.3	24,205.3	All	Check for security and damage	[redacted]
400	Controls linkage assembly	23,805.3	24,205.3	All	76-10-01 Check for security of locking features. Check for proper alignment of control rod, arms and levers, and for damage. Check bolts and screws securing arms and levers to serrated shaft. Lubricate rod end bearings if binding is noted.	
400	Magnetic drain plug (chip detector)	23,805.3	24,205.3	All	79-30-01 Remove and inspect. For 2 piece unit, removed knurled plug and accomplish visual inspection.	
400	Igniter plugs	23,805.3	24,205.3	All	74-20-01 Remove, clean, and inspect.	

Table 10 Periodic Inspections SB 72-0180

Hr Int	Inspection	Last Done	Next due	Model	Chapter/Sect/Action	Insp
400	Torque limiter bypass valve filter	23,805.3	24,205.3	All	73-22-01 Remove and clean	[redacted]
400	Fuel flow divider valve filter	23,805.3	24,205.3	All	73-10-07 Remove, clean, and inspect filter element.	
400	Starter -gen drive spline Post SB 72-0416	23,805.3	24,205.3	All	72-10-13	
400	Tachometer Generator Drive Pre SB 72-0486	23,805.3	24,205.3	All	72-10-15	
400	Auto Ignition Switch Post 74-0010	23,805.3	24,205.3	-11U	72-10-06 Functional test switch	
400	Anti-ice Valve	23,805.3	24,205.3	All	72-00-00 (Refer to Adj/Test Section or Test Section)	
450	Fuel Manifold and Nozzle Assemblies	23,805.3	24,255.3	All	73-10-09 (See note 2 of SB 72-0180)	
450	Visually inspect combustion case assembly	23,805.3	24,255.3	All	72-00-00	
800	Plenum drain valves	23,805.3	24,605.3	All	72-00-05 Remove and test for opening and closing	
900	Engine oil change	23,805.3	24,705.3	All	72-00-00 (Refer to Adj/Test Section or Test Section)	

ENGINE ☐
MODULE ☐
SERIAL NUMBER _____

SERVICE RECORD

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DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS
ENDORSE ALL INSPECTIONS AND REPAIRS WITH NAME, RATING AND CERTIFICATE NUMBER.

DATE	HOURS THIS FLIGHT	CYCLES THIS FLIGHT	ACCUMULATIVE TOTALS				DESCRIPTION OF WORK PERFORMED
			HOURS		CYCLES		
			SINCE NEW	SINCE O/H	SINCE NEW	SINCE O/H	
							TOTALS BROUGHT FORWARD

CD AVIATION SERVICES
[redacted]

Engine Model:**TPE331-11U-612G** Engine S/N:**P-44112C** TSN: **23,805.3** TSO: **565.0**
A/C Model: **Dromadier M18A** Reg.#: **N9310A** A/C S/N: **1Z018-01** Hobbs: **565.0**

- Performed applicable Periodic Inspections thru 900 hr I/A/W S/B 72-0180 Rev. 40
- Drained oil and serviced with 6 qts of Eastman 2380 turbine oil.
- Removed qty 10 fuel nozzles and installed qty 10 overhauled fuel nozzles.
- Completed satisfatory post maintenance operational and leak check.
- All maintenance performed in accordance with Honeywell HMM 72-00-25 Revision #14 dated 31/JAN/2012.

"MAINTENANCE RELEASE"
The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was approved for return to service only with regard to the work performed. Pertinent details of the repair/inspection are on file at this Repair Station under

WO# **5627** Date: **December 10, 2019**

Signed [redacted]
FAA REPAIR STATION NO. [redacted]

TOTALS TO DATE

PX-3107-51

Gearbox | Compressor | Service Bulletin Record | Airworthiness Directives | Modules | Nose Cone | Intermediate Gearbox

CD AVIATION SERVICES

SERVICE RECORD

DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS
ENDORSE ALL INSPECTIONS AND REPAIRS WITH NAME, RATING AND CERTIFICATE NUMBER.

PAGE _____

[redacted]

Engine Model:**TPE331-11U-612G** Engine S/N:**P-44112C**
A/C Model:**Dromader M18A** Reg.#:**N9310R** A/C S/N:**1201801** Hobbs:**747.4**

- Completed periodic inspections thru to 900 hours, in compliance with S/B 72-0180.
- Perfomed SOAP sample.
- Removed and installed qty 10 each overhauled fuel nozzles.
- Requires operational and leak check.
- All maintenance performed in accordanance with Honeywell MM 72-00-25 Rev 14 (31-JAN-12) and STC SA01361SE

"MAINTENANCE RELEASE"
The aircraft and/or component identified above was repaired and/or inspected in accordance with current Federal Aviation Regulations and was approved for return to service only with regard to the work performed. Pertinent details of the repair/inspection are on file at this Repair Station under

WO# **5880** Date **09 December, 2020**

Signed [redacted]
FAA REPAIR STATION NO. [redacted]

THIS CERTIFIES THAT THE TYPE OF INSPECTION LISTED AND SIGNED OFF IS IN ACCORDANCE WITH THE MANUFACTURER'S INSPECTION INSTRUCTIONS AS DEFINED IN CURRENT APPLICABLE MAINTENANCE MANUAL.

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