MINIPACK

Model No.	GTCP131-9A
Part No.	3800708-1
Serial No.	P-4986

CONDITION	Serviceable	TSN	9,843
TAGGED BY	Piedmont	CSN	21,541
TAG DATE	05/22/2024	TSI/TSR	0
TRACE TO	Maldavian	CSI/CSR	0
LOCATION	FLL		

LLPs

T1 Disk	27,705	CR
T2 Disk	27,705	CR
Impeller	8,459	CR
Tie Shaft	9,846	CR

Additional Information:

INCLUDED
☑ BOX/STAND

GENERATOR
☐ YES ☑ NO

PRESERVATION
☐ 6 MO ☐ 12 MO ☑ 24 MO

APPLICATION
A320

AVAILABILITY
Immediate

TRANSACTION TYPE
☑ LEASE ☑ EXCHANGE
☑ OUTRIGHT

More about your APU

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

Non Incident Statements

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ISLAND
AVIATION SERVICES LIMITED

Print Date: 11/04/2024 04:50
Page: 1 of 1

Engine Disk Report

PART NUMBER: 3800708-1 **INSTALLED ON A/C:** 02347 **POS:** **DATE REMOVED:** 24/03/2024
SERIAL NUMBER: P-4986 **DATE INSTALLED:** 28/10/2023

HOURS AT INSTALLATION: 8806:46 **HOURS ON WING:** 0:00 **ENGINE TOTAL HOURS:** 9843:00
CYCLES AT INSTALLATION: 20692 **CYCLES ON WING:** 0 **ENGINE TOTAL CYCLES:** 21541

Position	Pn Description	Part Number	Serial Number	Limit Hours	Limit Cycles	Actual Hours	Actual Cycles	Remain Hours	Remain Cycles
NHA PN: 3800708-1	**NHA SN:** P-4986								
APU-PS	POWER SECTION	49-21-00	APU-PS-P-4986			9843 : 00	21541		
NHA PN: 49-21-00	**NHA SN:** APU-PS-P-4986								
	STAGE 1 TURBINE ROTOR	3840310-4	18-156101-08008		30000	1822 : 19	2295		27705
APU-PS01	COMPRESSOR IMPELLER	3822391-6	12-162053-49632		30000	8464 : 07	20154		9846
APU-PS02	TURBINE SHAFT	3822504-3	11P41360		30000	9843 : 46	21541		8459
APU-PS03	2ND STAGE TURBINE ROTOR	3840165-9	19-156101-00133		30000	1822 : 19	2295		27705
APU-PS05	COMPRESSOR DRIVEN	3822400-5	11-162053-40763		30000	9843 : 46	21541		8459

MP 20 IAS

Non Incident Statements

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ISLAND AVIATION SERVICES LIMITED	NON-INCIDENT STATEMENT ENGINEERING DEPARTMENT	Form No:	Q2/CAMO/033
		Page:	1 of 3
		Rev:	1
		Date:	21 July 2022

Aircraft Type / MSN : A320-214 / 02347 Aircraft Registration Number : 8Q-IAN

Part Number : 3800708-1

Serial Number : P-4986

Description : AUXILLARY POWER UNIT

INSTALLATION DETAILS

Time Since New	8806.77
Cycles Since New	20692
Time Since Repair	0
Cycles Since Repair	0
Date Installed	28-Oct-23
Status	REPAIRED

REMOVAL DETAILS

Time Since New	9843.00
Cycles Since New	21541
Time Since Repair	1036.23
Cycles Since Repair	849
Date Removed	24-Mar-24
Status	SERVICEABLE
Reason for Removal	LEASE RETURN

Note:

1. Above unit was installed on engine from date 28-Oct-23 till date 24-Mar-24
2. Total Hours utilized during this period 1036.23 Hours
3. Total Cycles utilized during this period 849 Cycles

Declaration

This is to confirm, to our best knowledge, that the aforsaid unit had not been involved in any accident or incident during the period of utilization mentioned above.

Internal Endorsement	Approval
Signature:	Signature:
Name: Mohamed Hassan	Name: Abdul Hadee Aboobakuru
Title: Director Engineering	Title: General Manager Quality
Date: 11 April 2024	Date: 18 April 2024

AD/SB STATUS

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

بسم الله الرحمن الرحيم

ISLAND
AVIATION SERVICES LIMITED

maldivian
Bridging the gap

EXHIBIT C – Non AD / AB Statement

Non-AD / SB Statement

Date: 30th April 2024

To Whom it May Concern:

Island Aviation Services Limited, hereby confirms that no Service Bulletins or AD-related work implemented or performed on the equipment specified below:

APU Model Number	131-9A
APU Part Number	3800708-1
APU Serial Number	P-4986

	Installation	Removal
Date	28-Oct-23	24-Mar-24
Total Time Since New	8806.77	9843.00
Total Cycles Since New	20692	21541

Signature:

Name: Ibrahim Shiyaz

Title: Head of CAMO

Current 8130/EASA FORM 1

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number.
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	**AN31356** **52224130931**

4. Organization Name and Address.	5. Work Order, Contract or Invoice Number:
Piedmont Aviation Component Services **7102 Cessna Drive** **Greensboro, NC 27409** **USA** **Ph: 336-776-6300, Fax: 336-776-6301** **Repair Station No: QKPR504X. EASA.145 Certificate No. EASA.145.5257**	**102057**

6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	GTCP131-9A APU	3800708-1	1.00	P-4986	REPAIRED

12. REMARKS Pertinent details of this work are on file at this repair station under work order AN31356

Repaired in accordance with Honeywell Manual 49-27-29 Rev. 23, Dated 23 Nov. 2023.
Complied with Service Bulletin 49-8028 for preservation and storage.
No Airworthiness Directives apply at this time.

TSN: 9,843:00 TSO: 9,843:00 TSR: 0:00 TSHSI: N/A CSN: 21,541 CSO: 21,541 CSR: 0 All Time/Cycle Information Supplied by Customer

Certifies that the work specified in block 11 and 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 Acceptance Certificate EASA 145.5257.

13a. Certifies the items identified above were manufactured in conformity to:	14a [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 12
[ ] Approved design data and are in a condition for safe operation. [ ] 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 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:	14c. Approval/Certificate No:
		Brad Hendrix	QKPR504X
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date (dd/mmm/yyyy):**
		Brad Hendrix	22-May-2024

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(s)/propeller(s)/article(s).

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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statement 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.

Shop Visit

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Piedmont Aviation

Receiving Inspection Findings:

Incoming APU Times and Cycles: Times removed from Engine disk report.

1. Log Book received ☐No ☒Yes
2. Time Since New: 9,843 Cycles Since New: 21,541
   Time Since Overhaul: 9,843 Cycles Since Overhaul: 21,541
   Time Since Repair: 1,066 Cycles Since Repair: 887

Life Limited Parts (Received): Information removed from Engine disk report.

Description	Part No.	Serial No.	TSN	CSN	TSO	CSO	Cycle Limit	Cycles Remaining
1st Stage Turbine Disk	3840310-4	18-156101-08008	1,822:19	2,295	1,822:19	2,295	30,000	27,705
2nd Stage Turbine Disk	3840165-9	19-156101-00133	1,822:19	2,295	1,822:19	2,295	30,000	27,705
Compressor Rotor	3822391-6	12-162053-49632	8,464:07	20,154	1,822:19	2,295	30,000	9,846
Shaft, Turbine	3822504-3	11P41360	9,843:46	21,541	1,822:19	2,295	30,000	8,459

Customer's Reason for Removal:

1. Reason For Removal: Test and recertification.
2. Warranty Requested: ☐ Yes ☒ No
3. Customer Requested Work scope: Test and recertification.

Comments:

Shipping Container:

1. Container made of: ☒Wood ☐Cardboard ☐Metal ☐Other
2. Condition of container: ☒No Damage ☐Damaged
3. Reusable: ☒Yes ☐No

Comments: No discrepancies noted.

QEC / Components when received:

1. Status of Components: ☐Complete ☒Missing Components
2. Status of QEC: ☒Complete ☐Missing QEC

Comments: Received less AC generator.

(Must list missing items by part number and description if known)

Pre-Induction Inspection Findings:

APU External Condition when received:

1. Condition: ☒No Damage ☐Damaged ☒Clean
   ☐Dirty ☐Oily ☐Other (see comments)

Comments: No discrepancies noted.

APU Rotation:

1. ☒Smooth ☐Rough ☐Tight ☐Seized

Comments: No discrepancies noted.

Fan Gear Inspection:

1. Gear wear: ☒ Normal ☐ Damaged

Comments: No discrepancies noted.

(If Damaged Describe Damage)

Starter Brush Inspection:

1. Brush Wear Indicator: ☒ Normal ☐ Excessive Wear

Comments: No discrepancies noted.

Starter Clutch Inspection:

1. Clutch: ☒ Engages Normal ☐ Does not Engage ☐ Damaged
2. Bearings: ☒ Normal ☐ Rough ☐ Damaged

Comments: No discrepancies noted.

Oil System Evaluation:

A. Oil Scavenge Pump

1. If unit is received with oil, is it serviced properly? ☐ No Oil ☒ No ☐ Yes
2. Oil Condition: ☐ No Oil ☒ Normal ☐ Contaminated
3. Oil Filter Contamination: ☒ N/A ☐ No Filter ☐ Brass ☐ Steel
   ☐ Heavy ☐ Moderate ☐ Light

B. Generator Scavenge Filter

1. Oil Condition: ☐ No Oil ☒ Normal ☐ Contaminated
2. Oil Filter Contamination: ☒ N/A ☐ No Filter ☐ Brass ☐ Steel
   ☐ Heavy ☐ Moderate ☐ Light

Comments: No discrepancies noted.

***(Note:** Do not reinstall Oil Filter, loosely install Oil Filter Cap)*

Fuel System Evaluation:

1. Fuel Filter Check: ☒ Normal ☐ Contaminated ☐ Not Received

Comments: No discrepancies noted.

***(Note:** Fuel filter must be replaced at each shop visit)*

Magnetic Chip Detectors:

1. Gearbox Chip Detector: ☒ Normal ☐ Contaminated

Comments: No discrepancies noted.

A.P.U. Borescope:

	Component	Acceptable	Damaged	Comments
1.	1st Stg Compressor Impeller:	☒	☐	No discrepancies noted.
2.	Load Compressor Impeller:	☒	☐	No discrepancies noted.
3.	Combustion Chamber:	☒	☐	No discrepancies noted.

4. Inspect APU Inlet for Foreign Objects: Pass: ☒ Yes ☐ No

NOTES: No discrepancies noted.

***(Note:** Not required if affected section is in shop for Heavy Maintenance)*

Pre-Maintenance Test Evaluation:

1. ☐ APU was not pre-tested. See notes below.
2. ☒ APU was pre-tested. APU passed pre-test and can be returned to service.
3. ☐ APU was pre-tested. APU failed pre-test and requires further maintenance.

NOTES:

ANALYTICAL REPORT:

Findings & Evaluation:

1. **Gearbox Condition:**
   - ☐ Metal Contamination ☐ Bearing Failure ☐ Gear Failure ☐ Oil Leak
   - ☐ High Hours/Cycles ☐ Requires Mod ☒ No Damage
   - ☐ Other:_____

2. **Gearbox Recommended Work scope:**
   - ☐ Light Repair ☐ Medium Repair ☐ Overhaul
   - ☒ Not Disassembled

3. **Power Section Condition:**
   - ☐ FOD ☐ Bearing Failure ☐ Blade Shift ☐ Rub Damage
   - ☐ Oil Leak ☐ High EGT ☐ High Hours/Cycles ☐ Hot Section Deterioration
   - ☒ No Damage
   - ☐ Other:_____

4. **Power Section Recommended Work scope:**
   - ☐ Light Repair ☐ Medium Repair ☐ Overhaul
   - ☒ Not Disassembled

5. **Line Replaceable Units:**
   - ☐ Route selected LRU's for test and repair as necessary
   - ☐ Route all units for test and repair as necessary
   - ☒ No work required

Conclusion and Analysis:

1. **Reason for Removal Confirmed:**

☐ No ☒ Yes

Comments:_____

2. **Probable Cause:**

☒ Scheduled Removal ☐ Due HSI ☐ Excessive Heat Damage ☐ FOD
☐ Bearing Failure ☐ Blade Failure ☐ Improper Maintenance ☐ High Hours/Cycles
☐ Oil Leak
☒ Other: APU returning from lease.

3. **Evidence of Probable Cause:**

Comments: Customer RO.

The following items were found damaged during the inspection of the APU.

Description	Part No.	Serial No.	Remarks
Filter	2685336	N/A	100% Replaceable

APU Recommended Work scope:

1. Auxiliary Power Unit Recommended Work scope:
   - ☒ Light Repair
   - ☐ Medium Repair
   - ☐ Overhaul
   - ☐ Beyond Economical Repair
   - ☐ Return As Is
   - ☒ Functional Inspect and Test
   - ☐ Other: _____

Service Bulletin Compliance/Status:

S.B. Number	Rev. No.	Date	Description	Change No.	Status
49-8028	3	5 Nov. 2020	Long preservation and storage.	-----	CW

Airworthiness Directives Status:

A.D.	Amendment	Description	Status
		None apply.	

Designated Engineering Representative (DER)/ORI Report:

Part Name	Part Number	Revision #	Series	DER/ORI#	Implement Date	Installation Date

Piedmont Aviation

Accessory Report

CD (Condition) – 1 = (Overhaul) 2 = (Repair) 3 = (Bench Check) 4 = (Continued Time) 5 = (New)
FM = (Field Maintenance) HM = (Heavy Maintenance)

RECEIVED						INSTALLED			
Description	**REC**	**Part Number**	**Serial Number**	**RM'D**	**TECH**	**Part Number**	**Serial Number**	**CD**	**TECH**
Surge Valve	Yes	3291238-2	280	No	JDW			N/A	
Cooling Fan	Yes	3616140-11	P-1196CC	No	JDW			N/A	
Starter	Yes	2704506-4	5967	No	JDW			N/A	
Fuel Control	Yes	441921-5	CUC17622	No	JDW			N/A	
Flow Divider	Yes	692546-4	T#08862	No	JDW			N/A	
Lube Pump	Yes	4131020-4	5127	No	JDW			N/A	
Oil Temp Reg.	Yes	160494-1	LHTKK722	No	JDW			N/A	
Ignition Exciter	Yes	3888058-5	J19370032	No	JDW			N/A	
Oil Level Trans.	Yes	3876330-2	N/A	No	JDW			N/A	
Inlet Guide Vane Actuator	Yes	3886188-3	4298	No	JDW			N/A	
AC Generator	No	NOT	RECEIVED	N/A	JDW			N/A	
Compressor Inlet Sensor	Yes	3876225-2	111121407504	No	JDW			N/A	
Load Compressor Inlet Temp Sensor	Yes	MS28034-1	190146	No	JDW			N/A	
Igniter Plug	Yes	305766-4	17064119	No	JDW			N/A	
DMM	Yes	3876287-1	GE-2052	No	JDW				
Bleed Air Valve	Yes	3291432-2	2323	No	JDW				
Igniter Plug Lead	Yes	3876132-13	N/A	No	JDW			N/A	
Oil Temp Bulb	Yes	MS28034-3	156312	No	JDW			N/A	
LOP Switch	Yes	3876255-2	N/A	No	JDW			N/A	
Thermocouple	Yes	3876271-1	MFR50413-1902508	No	JDW			N/A	
Thermocouple	Yes	3876271-1	MFR50413-1902507	No	JDW			N/A	
Wiring Harness	Yes	3888438-1	N/A	No	JDW			N/A	
Primary Manifold	Yes	3883837-1	N/A	No	JDW			N/A	
Secondary Manifold	Yes	3883836-2	N/A	No	JDW			N/A	

CD (Condition) – 1 = (Overhaul) 2 = (Repair) 3 = (Bench Check) 4 = (Continued Time) 5 = (New)

Life Limited Parts (Installed): Not accessed this shop visit.

Description	Part No.	Serial No.	TSN	CSN	TSO	CSO	Cycle Limit	Cycles Remaining
1st Stage Turbine Disk								
2nd Stage Turbine Disk								

APU Corrective Action:

Description	Part No.	Serial No.	Maint. Level Compliance
APU	**3800708-1**	**P-4986**	**Repair**

Preservation Status:

☐ Immediate Use (Less than two weeks of storage)
☐ Short Term Storage (6 months or less)
☐ Long Term Storage (1 year or less)
☒ Extended Term Storage (2 years or less)

NOTE: Fuel system preserved for long or extended-term storage must be de-preserved in accordance with EM.

Quality Control Approval: Brad Hendrix **Date:** 5/22/2024

Photo Report:

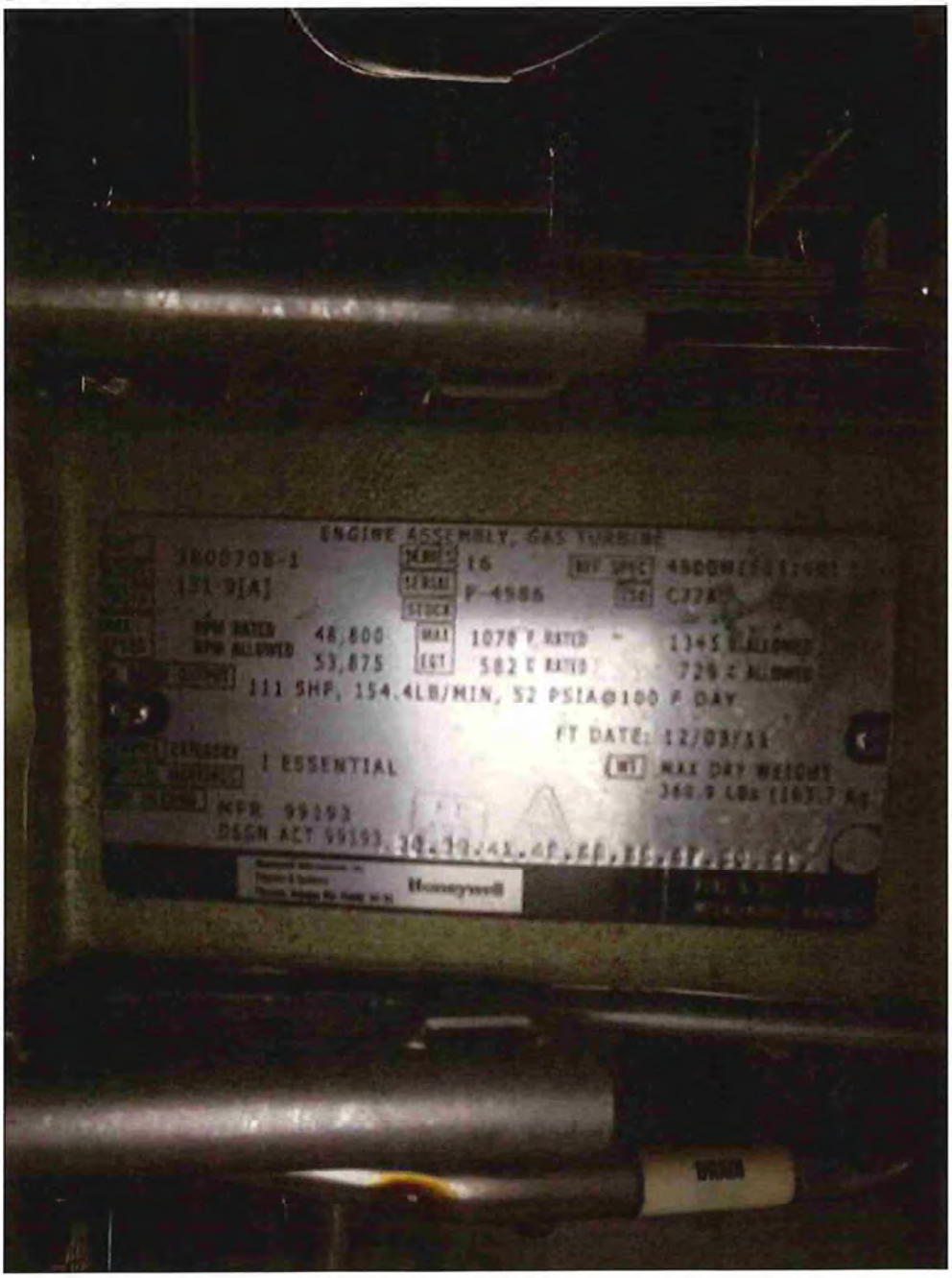


Image 1: Data Plate.

Image 2: APU shipping container.

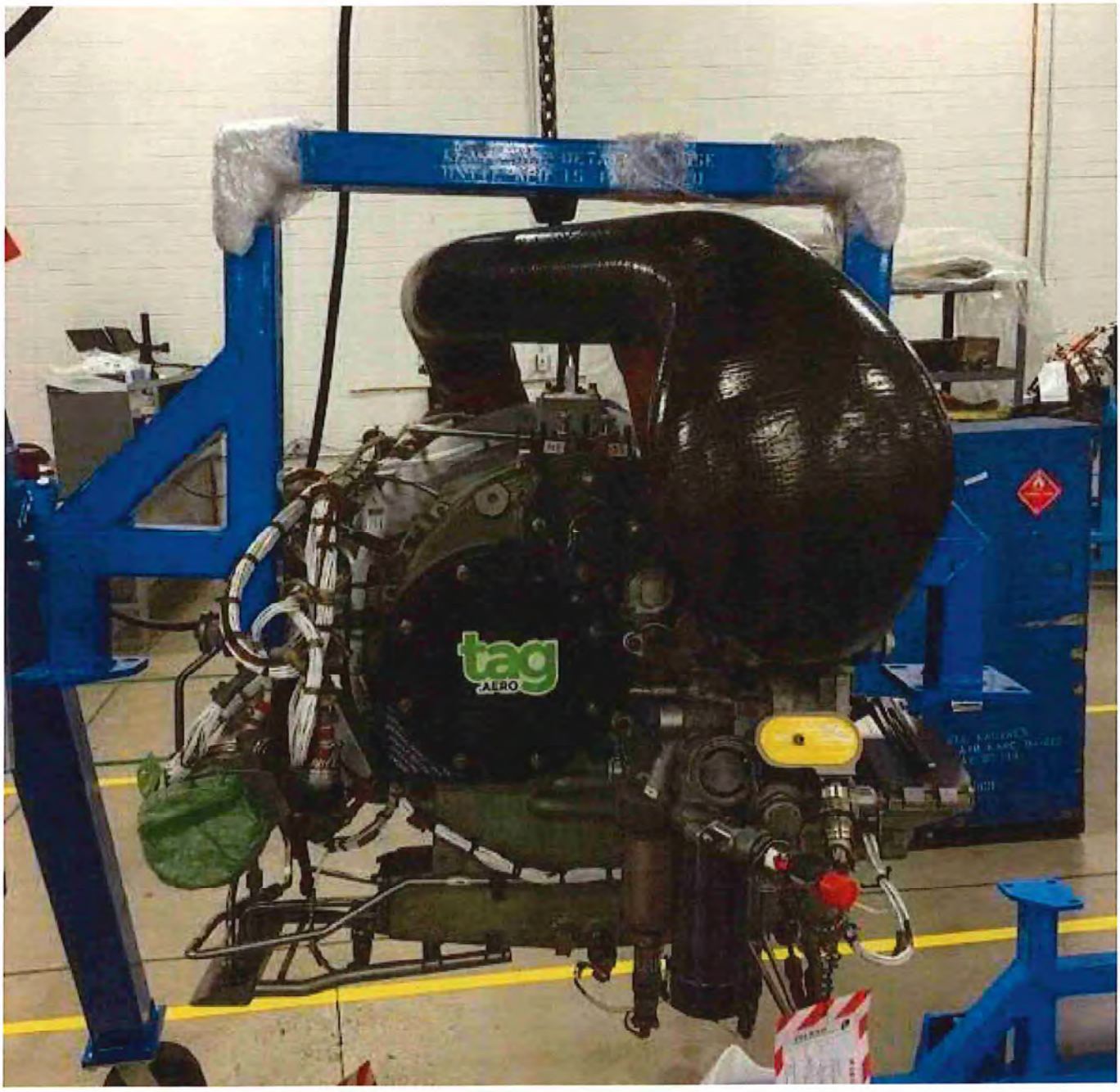


Image 3: APU front view.

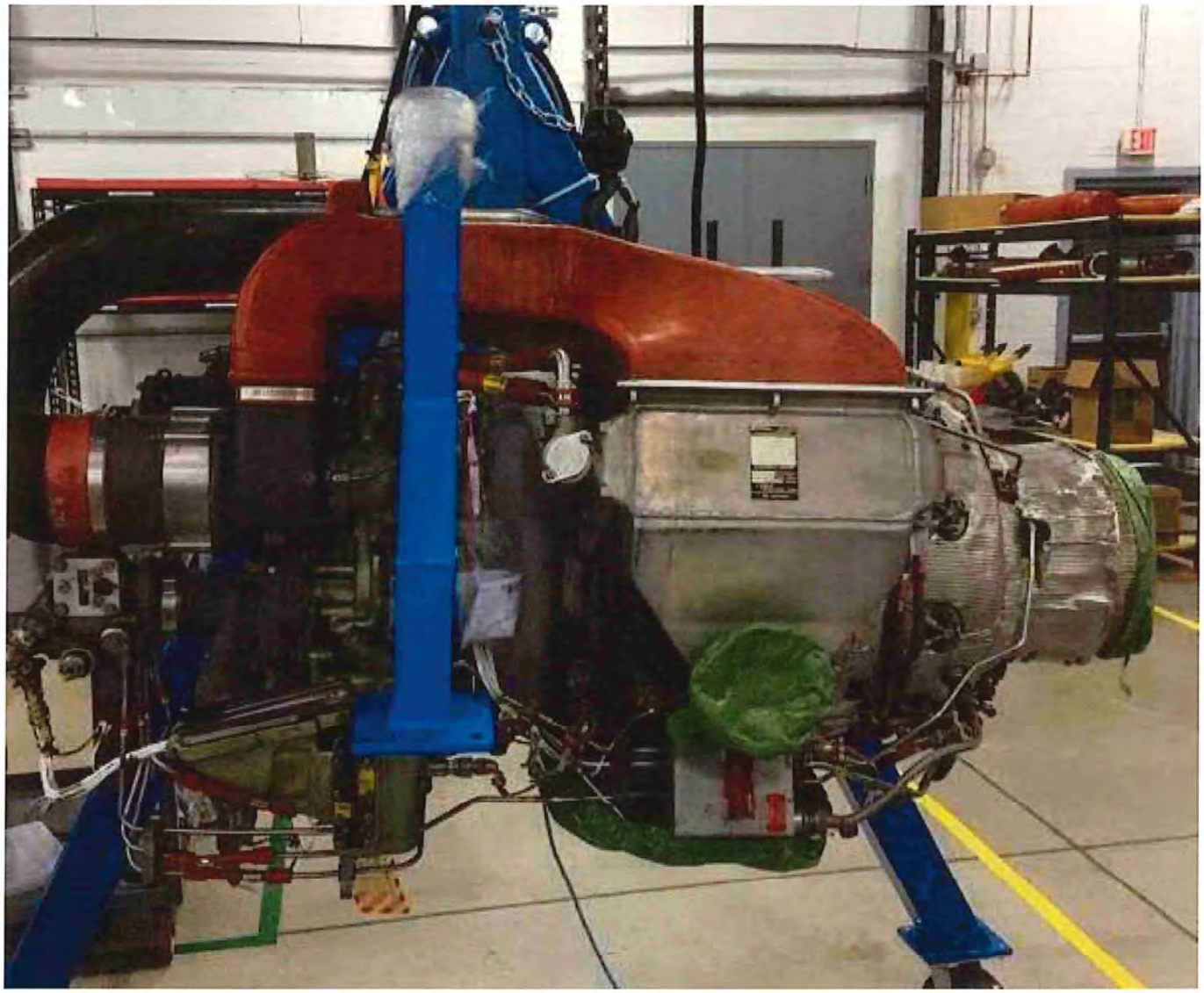


Image 4: APU side view.

Image 5: APU aft view.

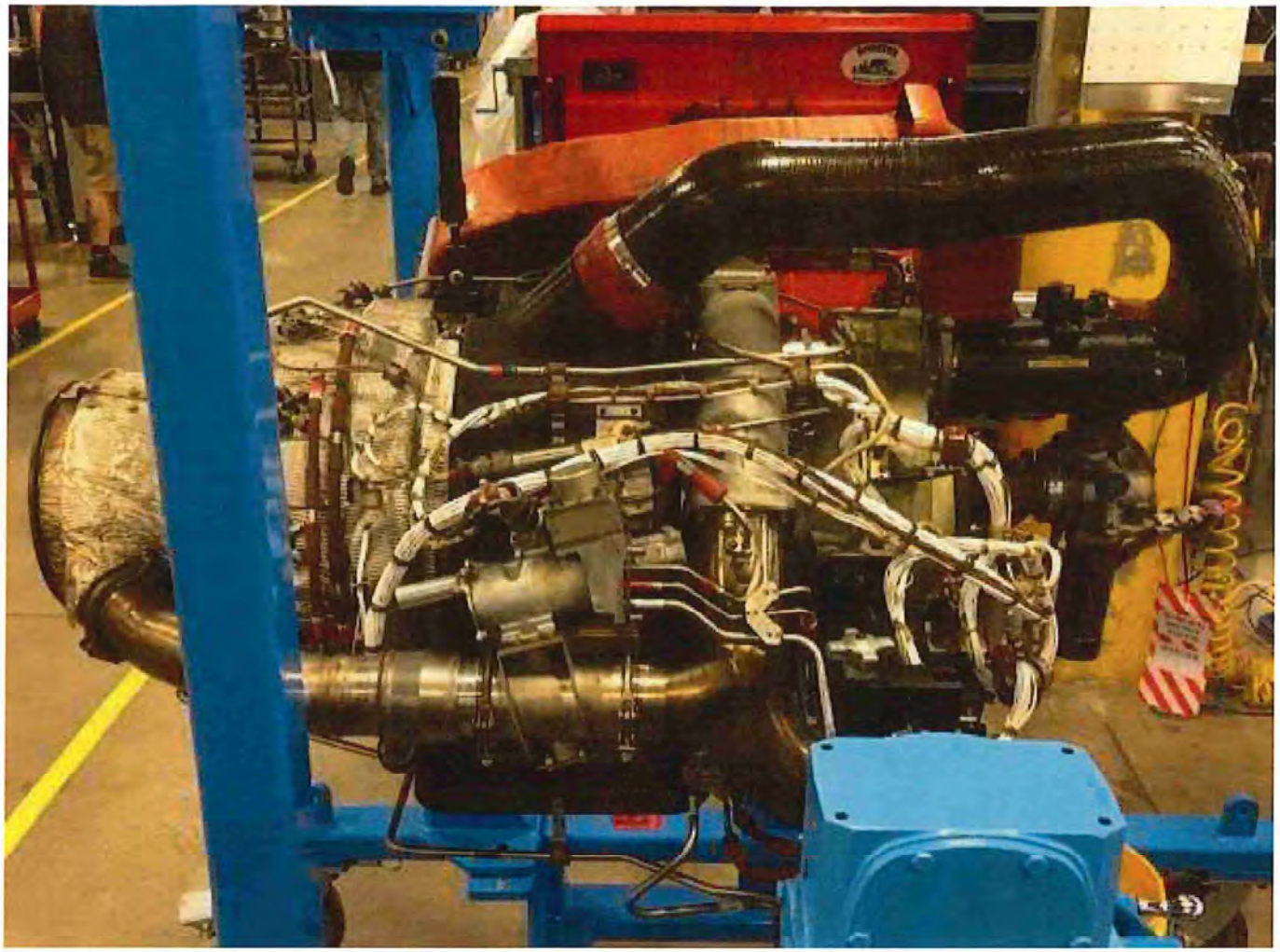


Image 6: APU side view.

Image 7: Borescope Pictures: Blade Tips of Load Compressor Impeller.

Image 8: Leading edges of Load Compressor Impeller.

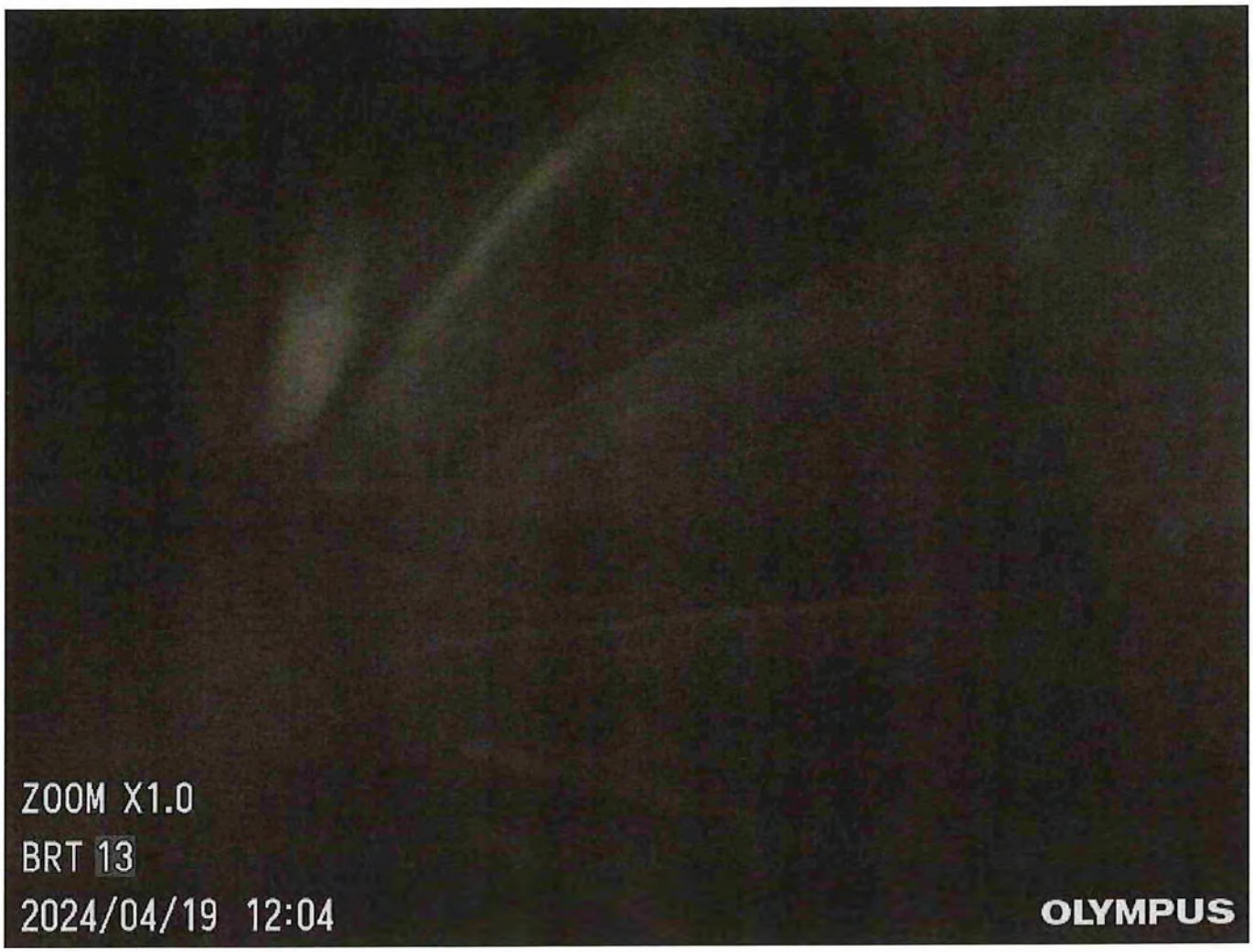


Image 9: Leading edges of Engine Compressor Impeller.

Image 10: First Stage Stator.

Image 11: First Stage Stator.

Image 12: First Stage Stator.

Appendix A: Test Report

Piedmont Aviation

Piedmont Aviation Component Services

Customer: GATTT
WO #: AN31356
P/N: 3800708-1
S/N: P-4986
Model#: GTCP131-9A
Test Cell #: 4

TEST SHEET

131 / 331 SERIES

Technician: D. E. James

Date: May 9, 2024

Test/Check	Observation	Requirement	Actual
Functional Test	Turbine Vibration	1.0 in./sec.	0.40 in./sec.
	Gearcase Vibration	0.65 in./sec.	0.38 in./sec.
	Cooling Fan Vibration	0.75 in./sec.	0.22 in./sec
	Oil Pump Discharge Press.	60-75 psig.	66 psig.
	Oil Temperature	325 °F	213 °F
	Full-Load Speed Ck.	48675 - 48925 RPM	48790 RPM
	Bleed Air Contamination	None Permitted	None Pass
Oil Contamination Check	Check for Contamination	None Permitted	None Pass
Performance Test	Corrected Air Flow		154.4 lb./min.
	Corrected Bleed Air Pressure		52.0 psia
	Corrected EGT		1096.0 °F

Approved by: Bryce T. Sdoucek

Date: 5/21/2024

TAT Piedmont Power & Actuation

GTCP131-9A APU TEST DATA SHEET

Engine S/N	P-4986	Sample Fuel SG	0.802
Work Order	AN31356	Sample T Fuel (°F)	66
ECB S/N	26-4900-9-0008	LHV (btu/lb)	18500
Oil Type	MIL-PRF-7808	Fuel Type	Jet Fuel
Turbine Vib S/N	33427	Test Type	Repair
Gearbox Vib S/N	33426	Repair Type	Light
Fan Vib S/N	33425	Date	7-May-24

PERFORMANCE SUMMARY

PARAMETER		UNITS	DATA POINT 0003		DATA POINT 0004	
			2 PACK ECS - 700 HIGH + 83 KW		MES + 54 KW	
			LIMIT	ACTUAL	LIMIT	ACTUAL
PBCOR	BLEED PRESSURE	PSIA	50.2 (3,46) MINIMUM	52	50.1 (3,45) MINIMUM	51.5
WBCOR	BLEED AIRFLOW	LB/MIN	148.9 (67,5) MINIMUM	154.4	N/A	140.6
EGTCOR	EXHAUST GAS TEMPERATURE	°F	1150 (621) MAXIMUM	1096	1145 (618) MAXIMUM	1087
WFCOR	FUEL CONSUMPTION	LB/HR	N/A	278.7	269.0 (122,0) REFERENCE	255.8

NOTE : PERFORMANCE DATA ADJUSTED TO SEA LEVEL, 100F/122F (38C/50C), INSTALLED CONDITIONS. EGTCOR AND WFCOR ARE ALSO CORRECTED TO MINIMUM BLEED PRESSURE. WFCOR IS A REFERENCE-ONLY VALUE

ECS OFFSET WORKSHEET (Step 8.D.(3))

INITIAL PBCOR	PSIA	51.9
FINAL PBCOR	PSIA	51.9
INITIAL IGV POSITION	°	91.8
FINAL IGV POSITION	°	91.8
ECS_OFFSET (FINAL IGV DEG - INITIAL IGV DEG)	°	0

FLOW SENSOR TEST

PARAMETER		STEP	UNITS	LIMITS	VALUE
WBCDNA	FLOW SENSOR TEST	8.E.(8) DATA POINT 0005	LB/MIN	47.6 52.3	51.1
WBCDNA	FLOW SENSOR TEST	8.E.(11) DATA POINT 0006	LB/MIN	47.6 52.3	51
WC	FLOW SENSOR ACCURACY	8.E.(12)(a)	%	± 5	1.5

PERFORMED TEST DETAILS

SCV STABILITY TEST	STEP 8.F	STABLE	PASSED
MINIMUM SURGE MARGIN TEST	STEP 8.G	APU SURGE	PASSED
DC POWER START TIME	STEP 8.H.(1)(a)	SECONDS	35
TOTAL NUMBER OF STARTS DURING TEST	---	EA.	7
TOTAL OPERATING TIME DURING TEST	---	HOUR	5.13
APU FAULTS SEEN DURING TEST	---	N/A	0

TAT Piedmont Power & Actuation

GTCP131-9A APU TEST DATA SHEET

Engine S/N	P-4986	Sample Fuel SG	0.802
Work Order	AN31356	Sample T Fuel (°F)	66
ECB S/N	26-4900-9-0008	LHV (btu/lb)	18500
Oil Type	MIL-PRF-7808	Fuel Type	Jet Fuel
Turbine Vib S/N	33427	Test Type	Repair
Gearbox Vib S/N	33426	Repair Type	Light
Fan Vib S/N	33425	Date	7-May-24

			STEP	8.D.(4)c	8.D.(5)g	8.D.(1)f	8.D.(2)d
			DIGITAL DATA POINT NUMBER	0003	0004	0001	0002
	PARAMETERS		UNITS	2 PCKS-700 ECS HIGH	MES	RTL	GEN LOAD
PBAR	BAROMETRIC PRESSURE		PSIA	14.25	14.25	14.25	14.25
PINLET	INLET PRESSURE		PSIA	14.25	14.25	14.25	14.25
T1	T1-APU INLET TEMPERATURE (AVG)		°F	84.9	85.7	82	82
TENIVA	UNIT INLET TEMPERATURE (T2)		°F	85.6	85.6	81.1	81.1
POIL	OIL PRESSURE (LUBE PUMP DISCHARGE)		PSIG	65.3	65.6	66.1	65.7
TOIL	OIL TEMP (LUBE PUMP DISCHARGE)		°F	213	206	201	210
PSGBX	GEARBOX PRESSURE-SUMP		inH2O	-3.8	-2.9	5.4	3.2
TOS	GEARBOX TEMPERATURE-SUMP		°F	237	228	221	234
TFUEL	FUEL INLET TEMPERATURE		°F	79.7	81	83.2	82.7
PFUEL	FUEL INLET PRESSURE		PSIG	24.22	24.56	26.04	25.39
VIBGBA	UNIT VIBRATION-GEARBOX		IN/SEC Pk	0.38	0.36	0.32	0.4
VIBTHA	UNIT VIBRATION-TURBINE		IN/SEC Pk	0.15	0.2	0.24	0.21
VIBCFA	UNIT VIBRATION-COOLING FAN		IN/SEC Pk	0.21	0.2	0.2	0.22
XNL	SHAFT SPEED		RPM	48790	48790	48790	48792
PIGV	INLET GUIDE VANE POSITION		°	91.8	91.9	22.1	22.1
PSCV	SURGE CONTROL VANE POSITION		°	90	90	10.2	10.2
PCDFD	COMPRESSOR DISCHARGE STATIC		PSIA	99	98	91.9	95.1
TCDFD	COMPRESSOR DISCHARGE TEMPERATURE		°F	612.7	609.7	587	594
TTDEA	TURBINE DISCHARGE TEMPERATURE #1		°F	1073	1009	730	841
TTDEB	TURBINE DISCHARGE TEMPERATURE #2		°F	1022	976	696	807
EGT	LAB EGT (AVG)		°F	1067	1015	641	719
PS9	EXHAUST STATIC PRESSURE		PSIA	14.17	14.18	14	13.97
PBORFA	BLEED AIR ORIFICE PRESSURE		PSIA	51.5	53.4	N/A	N/A
TBORFA	BLEED AIR ORIFICE TEMPERATURE		°F	382.9	391.4	N/A	N/A
PDBORA	BLEED AIR ORIFICE DELTA PRESSURE		PSID	0.41	0.37	N/A	N/A
WB	BLEED AIRFLOW		LB/MIN	159.1	153	N/A	N/A
WBCDNA	CORRECTED DISCHARGE AIRFLOW		LB/MIN	56.9	53.1	N/A	N/A
PB	BLEED PRESSURE (AVG)		PSIA	53.1	54.9	N/A	N/A
TB	BLEED TEMPERATURE (AVG)		°F	407.5	413.6	N/A	N/A
WF	FUEL FLOW (AVG)		LB/HR	284.8	266.9	168.1	207.1
PWGEN	GENERATOR LOAD - POWER FACTOR = 1.0		KW	68.9	44.9	N/A	80.8

N/A = NOT NEEDED OR APPLICABLE

TAT Piedmont Power & Actuation

GTCP131-9A APU TEST DATA SHEET

Engine S/N	P-4986	**Sample Fuel SG**	0.802
Work Order	AN31356	**Sample T Fuel (°F)**	66
ECB S/N	26-4900-9-0008	**LHV (btu/lb)**	18500
Oil Type	MIL-PRF-7808	**Fuel Type**	Jet Fuel
Turbine Vib S/N	33427	**Test Type**	Repair
Gearbox Vib S/N	33426	**Repair Type**	Light
Fan Vib S/N	33425	**Date**	7-May-24

CALCULATIONS

			STEP	8.D.(4)c	8.D.(5)g	8.D.(1)f	8.D.(2)d
			DIGITAL DATA POINT NUMBER	0003	0004	0001	0002
	PARAMETERS		UNITS	2 PCK-700 ECS HIGH	MES	RTL	GEN LOAD
SHPSL	GENERATOR LOAD AT SEA LEVEL = (PWGEN/0.85)/ (PCELL / 14.696)		KW	83.6	54.5	N/A	98
	APU DELTAP/DELTA = (PCELL - PS9) / (PCELL / 14.696)		PSIA	0.08	0.07	N/A	N/A
	BLEED PRESSURE AT SEA LEVEL = PB / (PCELL / 14.696)		PSIA	54.81	56.65	N/A	N/A
DELPB	BLEED PRESSURE LAPSE RATE CORRECTION		PSIA	-1.6	-3.9	N/A	N/A
	INSTALLATION EFFECT ON BLEED PRESSURE		PSIA	-1.2	-1.2	N/A	N/A
PBCOR	BLEED PRESSURE CORRECTED TO SEA LEVEL, 100F (38C), INSTALLED		PSIA	52	51.5	N/A	N/A
	BLEED AIRFLOW AT SEA LEVEL = WB / (PCELL / 14.696)		LB/MIN	164.1	157.9	N/A	N/A
DELWB	BLEED FLOW LAPSE RATE CORRECTION		LB/MIN	-6.2	-14.2	N/A	N/A
	INSTALLATION EFFECT ON WB		LB/MIN	-3.5	-3.1	N/A	N/A
WBCOR	BLEED AIRFLOW CORRECTED TO SEA LEVEL, 100F (38C)		LB/MIN	154.4	140.6	N/A	N/A
DELTB	BLEED TEMPERATURE LAPSE RATE CORRECTION		°F	14.1	34.3	N/A	N/A
	EXCESS PRESSURE CORRECTION ON BLEED TEMPERATURE = (-4.5 * (PBCOR - PBREQ))		°F	-8	-6	N/A	N/A
TBCOR	BLEED TEMPERATURE CORRECTED TO SEA LEVEL, 100F (38C), INSTALLED		°F	413.4	441.4	N/A	N/A
DELEGT	EGT LAPSE RATE CORRECTION		°F	29.1	69.3	N/A	N/A
	APU DELTA P CORRECTION ON EGT = (65 * (PCELL - PS9) / (PCELL / 14.696)		°F	4.91	4.87	N/A	N/A
	INSTALLATION EFFECTS ON EGT		°F	14	14	N/A	N/A
	EXCESS BLEED PRESSURE CORRECTION ON EGT = (-11 * (PBCOR - PBREQ))		°F	-20	-16	N/A	N/A
EGTCOR	EGT CORRECTED TO SEA LEVEL, 100F (38C), INSTALLED, AT PBREQ		°F	1096	1087	N/A	N/A
	SEA LEVEL FUEL FLOW = (WF / PCELL / 14.696) * (FLHV / 18550)		LB/HR	293	274.5	N/A	N/A
DELWF	FUEL FLOW LAPSE RATE CORRECTION		LB/HR	-4.7	-10.9	N/A	N/A
	APU DELTA P CORRECTIONS ON WF = (15 * (PCELL - PS9) / (PCELL / 14.696)		LB/HR	1.13	1.12	N/A	N/A
	INSTALLATION EFFECT ON WF		LB/HR	-2.7	-2.7	N/A	N/A
	EXCESS BLEED PRESSURE CORRECTION ON WF = (-4.4 * (PBCOR - PBREQ))		LB/HR	-7.93	-6.27	N/A	N/A
WFCOR	FUEL FLOW CORRECTED TO SEA LEVEL, 100F (38C), INSTALLED, AT PBREQ		LB/HR	278.7	255.8	N/A	N/A

N/A = NOT NEEDED OR APPLICABLE

TAT Piedmont
Power & Actuation

GTCP131-9A APU TEST DATA SHEET

Engine S/N	P-4986	Sample Fuel SG	0.802
Work Order	AN31356	Sample T Fuel (°F)	66
ECB S/N	26-4900-9-0008	LHV (btu/lb)	18500
Oil Type	MIL-PRF-7808	Fuel Type	Jet Fuel
Turbine Vib S/N	33427	Test Type	Repair
Gearbox Vib S/N	33426	Repair Type	Light
Fan Vib S/N	33425	Date	7-May-24

A/C COMPONENTS USED DURING TEST

COMPONENT	MFR P/N	MFR S/N
ELECTRONIC CONTROL UNIT		
START POWER UNIT		
STARTER CONVERTER UNIT		

REPLACED LRUs FOR T/S

COMPONENT	MFR P/N	REMOVED MFR S/N	INSTALLED MFR S/N

FINDINGS - REMARKS

COMPLIANCE

APU Incoming Date : ***Time:***
APU Outgoing Date : ***Time:***

1) We certify that above data are true and correct, and in addition, subject APU has successfully met all *test requirements specified in EM 49-20-00 Rev. 19 Dated Aug 25, 2022*

2) APU functions and test parameters are ; ***ACCEPTED***

PERFORMED & INSPECTED BY	NAME & SURNAME	SIGNATURE/STAMP	DATE
OPERATOR	*Doug James*	D. E James	5-9-24
INSPECTOR	~~Doug James~~ Bryce Solomon	Bryce T. Solomon	5/21/2024

Appendix B: LRU 8130

Appendix C: APU 8130

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number.
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	**AN31356** **52224130931**

4. Organization Name and Address.	5. Work Order, Contract or Invoice Number:
Piedmont Aviation Component Services **7102 Cessna Drive** **Greensboro, NC 27409** **USA** **Ph: 336-776-6300, Fax: 336-776-6301** **Repair Station No: QKPR504X. EASA.145 Certificate No. EASA.145.5257**	**102057**

6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	GTCP131-9A APU	3800708-1	1.00	P-4986	REPAIRED

12. REMARKS Pertinent details of this work are on file at this repair station under work order AN31356

Repaired in accordance with Honeywell Manual 49-27-29 Rev. 23, Dated 23 Nov. 2023.
Complied with Service Bulletin 49-8028 for preservation and storage.
No Airworthiness Directives apply at this time.

TSN: 9,843:00 TSO: 9,843:00 TSR: 0:00 TSHSI: N/A CSN: 21,541 CSO: 21,541 CSR: 0 All Time/Cycle Information Supplied by Customer

Certifies that the work specified in block 11 and 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 Acceptance Certificate EASA 145.5257.

13a. Certifies the items identified above were manufactured in conformity to:	14a [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 12
[ ] Approved design data and are in a condition for safe operation. [ ] 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 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:	14c. Approval/Certificate No:
		Brad Hendrix	QKPR504X
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date (dd/mmm/yyyy):**
		Brad Hendrix	22-May-2024

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(s)/propeller(s)/article(s).

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 aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.

Statement 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.

COPY

Honeywell

LIFE LIMITED PART LOG

ASSEMBLY NAME: PART NUMBER: SERIAL NUMBER:

LIFE LIMITED PART NAME: ROTOR ASSY, TURBINE - FIRST STAGE AXIAL PART NUMBER: 3840310-4 SERIAL NUMBER: 18-156101-08008

MANUFACTURED PER FAR PART 21 UNDER:
PRODUCTION CERTIFICATE PC413: SIGNATURE OR ACCEPTANCE STAMP: QA122

DATE INSTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		SIGNATURE / FAA NUMBER
			CYCLES*	HOURS	CYCLES*	HOURS	
6-5-19		P-4986	0.0	0.0	0.0	0.0	Honeywell ZN3R030M

*SEE SERVICE LIFE LIMITS OF CRITICAL LIFE LIMITED COMPONENTS, ENTRIES SHALL COMPY TO FAR 43.

PX-3107-76C

Honeywell

COPY

LIFE LIMITED PART LOG

ASSEMBLY NAME | PART NUMBER: | SERIAL NUMBER:

LIFE LIMITED PART NAME: TURBINE ROTOR, 2ND STAGE | PART NUMBER: 3840165-9 | SERIAL NUMBER: 19-156101-00133

MANUFACTURED PER FAR PART 21 UNDER PRODUCTION CERTIFICATE PC413 | SIGNATURE OR ACCEPTANCE STAMP: A-82

DATE INSTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		SIGNATURE / FAA NUMBER
			CYCLES*	HOURS	CYCLES*	HOURS	
10-5-19		P-4986	0	0	0	0	Honeywell ZN3R030M

* SEE SERVICE LIFE LIMITS OF CRITICAL LIFE LIMITED COMPONENTS, ENTRIES SHALL COMPY TO FAR 43.

PX-3107-76C
YQML_FRMQM00004

Honeywell

ULTIMATE LIFE PART CARD

COPY

Part Name **E/C IMPELLER** Disk Part Number N/A

Serial Number 12-162053-49632 Assy Part Number 3822391-6

DATE INSTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	AIRCRAFT SERIAL NUMBER	TIME ON PART THIS INSTALLATION CYCLES	TIME ON PART THIS INSTALLATION HOURS	TOTAL TIME ON PART CYCLES	TOTAL TIME ON PART HOURS	REMARKS
11/12	[redacted]	P-9644		0	0.0	0	0.0	
[redacted]	4-23-19			17856	6640:48	17856	6640:48	HONEYWELL ZN3R030M
10/5/19	[redacted]	P-4986		/	/	17856	6640:48	HONEYWELL ZN3R030M
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							

AX-6167-3

ULTIMATE LIFE PART REPAIR RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE
10/5/19	TSN 6640:48 CSN 17856 THIS LIFE LIMIT CARD RECONSTRUCTED	HONEYWELL ZN3R030M
	FROM INFORMATION SUPPLIED BY THE CUSTOMER. ALL INFORMATION	
	IS ON FILE AT THE REPAIR STATION UNDER REPAIR ORDER 337207496.	BOB NAGLE
10/5/19	TSN 6640:48 CSN 17856 OVERHAULED IAW MANUAL 49-26-85 REV 32.	HONEYWELL ZN3R030M
	R.O. 335887313	BOB NAGLE

Honeywell

COPY

ULTIMATE LIFE PART CARD

Part Name **TIE SHAFT**
Serial Number 11P41360

Disk Part Number N/A
Assy Part Number 3822504-3

DATE INSTALLED	DATE REMOVED	ENGINE SERIAL NUMBER	AIRCRAFT SERIAL NUMBER	TIME ON PART THIS INSTALLATION CYCLES	TIME ON PART THIS INSTALLATION HOURS	TOTAL TIME ON PART CYCLES	TOTAL TIME ON PART HOURS	REMARKS
12/05/11	[redacted]	P-4986		0	0.0	0	0.0	
[redacted]	9-1-19			19243	8020:27	19243	8020:27	HONEYWELL ZN3R030M
10/5/19	[redacted]	P-4986		/	/	19243	8020:27	HONEYWELL ZN3R030M
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							
[redacted]	[redacted]							

AX-6167-3

ULTIMATE LIFE PART REPAIR RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE
10/5/19	TSN 8020:27 CSN 19243 THIS LIFE LIMIT CARD RECONSTRUCTED	HONEYWELL ZN3R030M
	FROM INFORMATION SUPPLIED BY THE CUSTOMER. ALL INFORMATION	
	IS ON FILE AT THE REPAIR STATION UNDER REPAIR ORDER 337207496.	BOB NAGLE
10/5/19	TSN 8020:27 CSN 19243 OVERHAULED IAW MANUAL 49-26-85 REV 32.	HONEYWELL ZN3R030M
	R.O. 337406957	BOB NAGLE

PIEDMONT
AVIATION COMPONENT SERVICES

Date	Time since O.H.	Time since Repair	Total Time	Remarks, Inspections, Repairs and Adjustments
5/21/2024	9,843:00	0:00	9,843:00	Repaired and tested IAW Honeywell Manual 49-27-29 Rev. 23, dated
				11/23/2023. Complied with Service Bulletin 49-8028.
				No Airworthiness Directives apply. Pertinent details of this work will
				be on file at this Repair Station under Work Order# AN31356.
	CSN	21,541		
	CSO	21,541		
	CSR	0		
			P/N	3800708-1
			S/N	P-4986
			Model	GTCP131-9A
				APPROVED BY
				INSPECTOR FOR
				PIEDMONT AVIATION COMPONENT SERVICES
				GREENSBORO, NC
				REPAIR STATION # QKPR504X

QEC/LRU/Accessories

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

Piedmont Aviation

Accessory Report

CD (Condition) – 1 = (Overhaul) 2 = (Repair) 3 = (Bench Check) 4 = (Continued Time) 5 = (New)
FM = (Field Maintenance) HM = (Heavy Maintenance)

RECEIVED						INSTALLED			
Description	**REC**	**Part Number**	**Serial Number**	**RM'D**	**TECH**	**Part Number**	**Serial Number**	**CD**	**TECH**
Surge Valve	Yes	3291238-2	280	No	JDW			N/A	
Cooling Fan	Yes	3616140-11	P-1196CC	No	JDW			N/A	
Starter	Yes	2704506-4	5967	No	JDW			N/A	
Fuel Control	Yes	441921-5	CUC17622	No	JDW			N/A	
Flow Divider	Yes	692546-4	T#08862	No	JDW			N/A	
Lube Pump	Yes	4131020-4	5127	No	JDW			N/A	
Oil Temp Reg.	Yes	160494-1	LHTKK722	No	JDW			N/A	
Ignition Exciter	Yes	3888058-5	J19370032	No	JDW			N/A	
Oil Level Trans.	Yes	3876330-2	N/A	No	JDW			N/A	
Inlet Guide Vane Actuator	Yes	3886188-3	4298	No	JDW			N/A	
AC Generator	No	NOT	RECEIVED	N/A	JDW			N/A	
Compressor Inlet Sensor	Yes	3876225-2	111121407504	No	JDW			N/A	
Load Compressor Inlet Temp Sensor	Yes	MS28034-1	190146	No	JDW			N/A	
Igniter Plug	Yes	305766-4	17064119	No	JDW			N/A	
DMM	Yes	3876287-1	GE-2052	No	JDW				
Bleed Air Valve	Yes	3291432-2	2323	No	JDW				
Igniter Plug Lead	Yes	3876132-13	N/A	No	JDW			N/A	
Oil Temp Bulb	Yes	MS28034-3	156312	No	JDW			N/A	
LOP Switch	Yes	3876255-2	N/A	No	JDW			N/A	
Thermocouple	Yes	3876271-1	MFR50413-1902508	No	JDW			N/A	
Thermocouple	Yes	3876271-1	MFR50413-1902507	No	JDW			N/A	
Wiring Harness	Yes	3888438-1	N/A	No	JDW			N/A	
Primary Manifold	Yes	3883837-1	N/A	No	JDW			N/A	
Secondary Manifold	Yes	3883836-2	N/A	No	JDW			N/A	

CD (Condition) – 1 = (Overhaul) 2 = (Repair) 3 = (Bench Check) 4 = (Continued Time) 5 = (New)

BSI Report

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

Magnetic Chip Detectors:

1. Gearbox Chip Detector: ☒ Normal ☐ Contaminated

Comments: No discrepancies noted.

A.P.U. Borescope:

	Component	Acceptable	Damaged	Comments
1.	1st Stg Compressor Impeller:	☒	☐	No discrepancies noted.
2.	Load Compressor Impeller:	☒	☐	No discrepancies noted.
3.	Combustion Chamber:	☒	☐	No discrepancies noted.

4. Inspect APU Inlet for Foreign Objects: Pass: ☒ Yes ☐ No

NOTES: No discrepancies noted.

***(Note:** Not required if affected section is in shop for Heavy Maintenance)*

Pre-Maintenance Test Evaluation:

1. ☐ APU was not pre-tested. See notes below.
2. ☒ APU was pre-tested. APU passed pre-test and can be returned to service.
3. ☐ APU was pre-tested. APU failed pre-test and requires further maintenance.

NOTES:

Image 7: Borescope Pictures: Blade Tips of Load Compressor Impeller.

Image 8: Leading edges of Load Compressor Impeller.

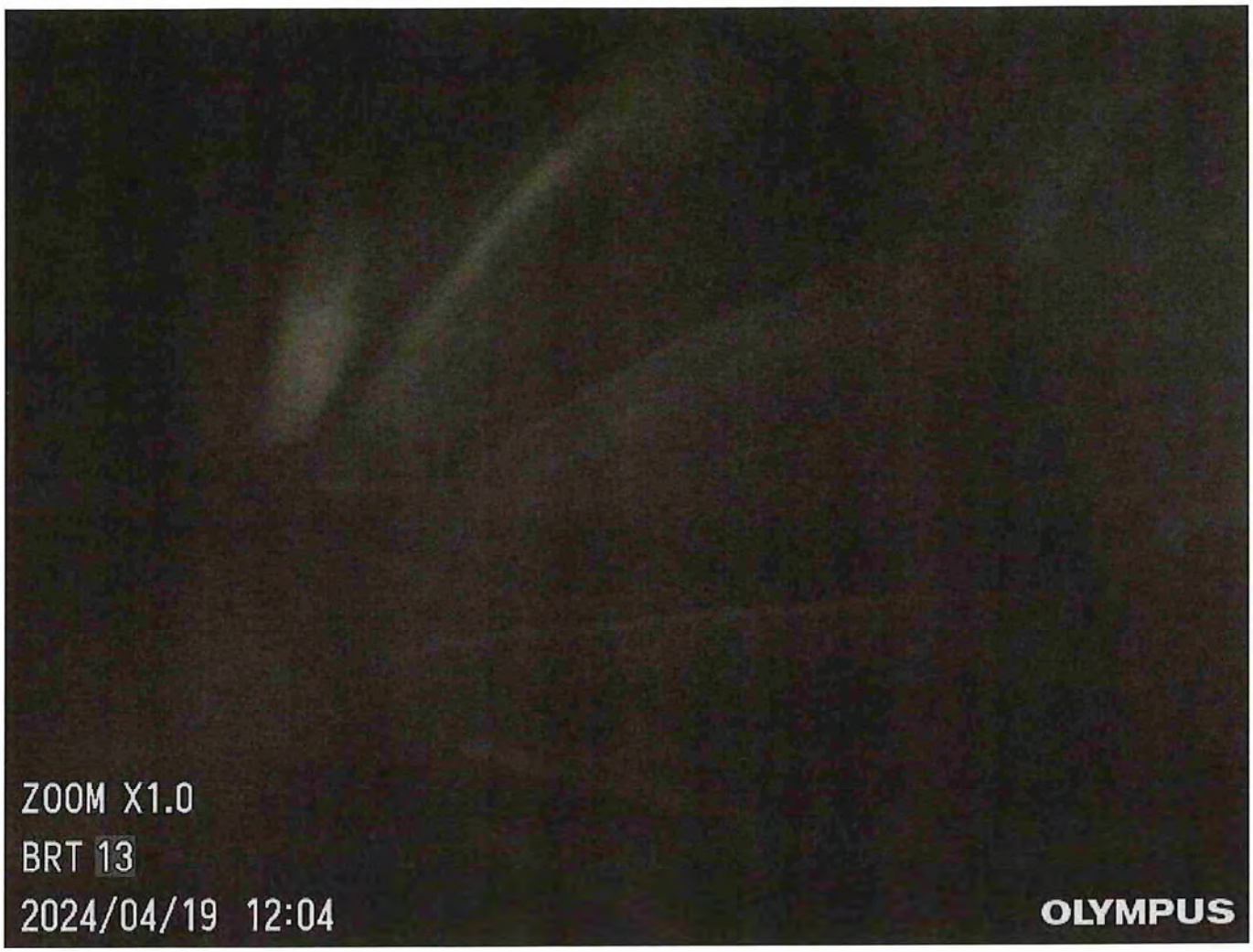


Image 9: Leading edges of Engine Compressor Impeller.

Image 10: First Stage Stator.

Image 11: First Stage Stator.

Image 12: First Stage Stator.

Log Book

9100 S. Dadeland Blvd., Suite 1500, Miami, FL 33156 +1-305-271-6650
info@longreach.com www.longreach.com

Honeywell

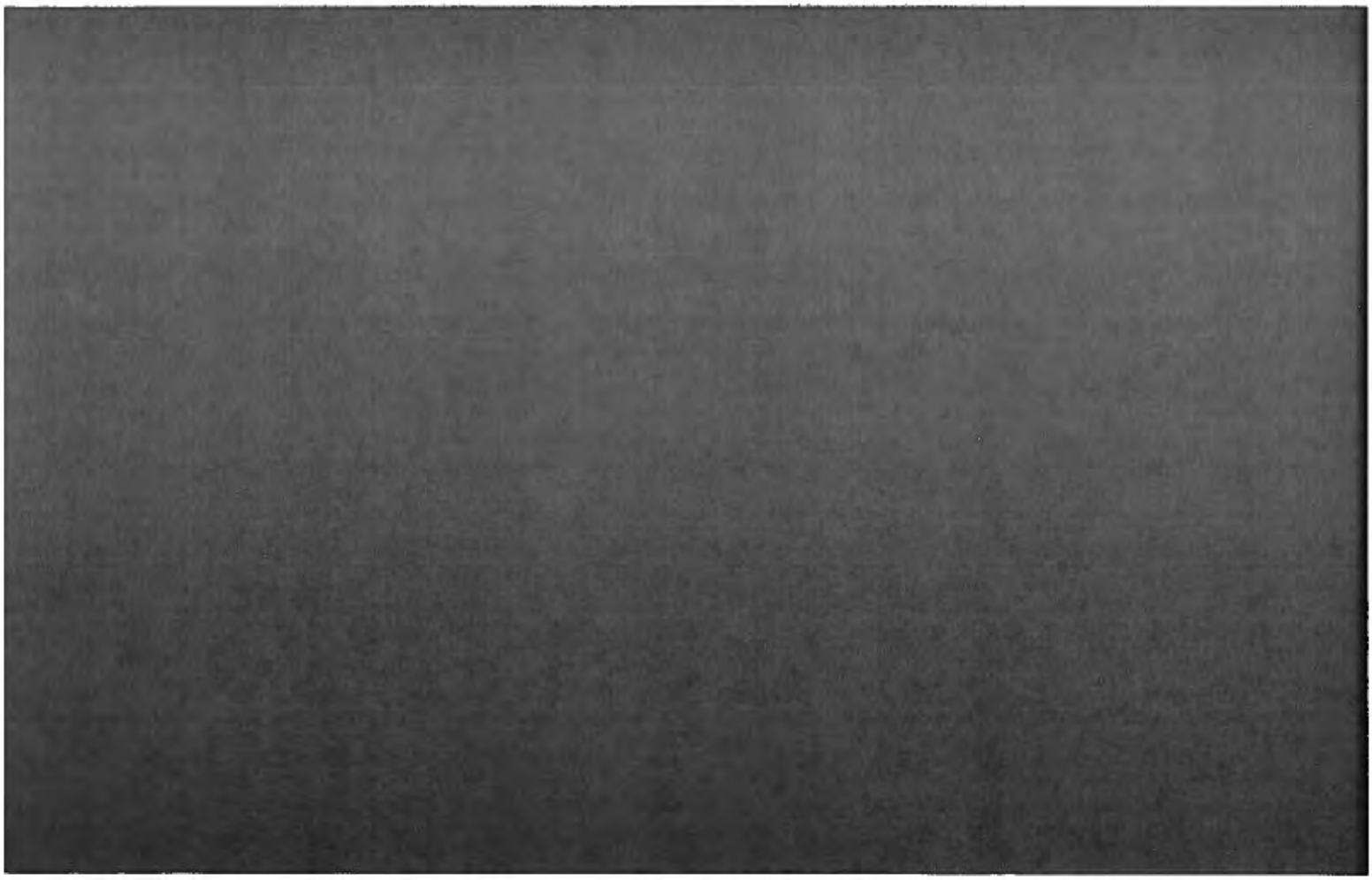
AC 5004

SIN: P-4986

Honeywell International Inc
Engines Systems and Services
PO Box 52181
Phoenix, Arizona 85072-2181

AUXILIARY POWER UNIT

APU LOG BOOK



APU Data

Delivery Date _____

Model No. 131-9[A] Serial No. P-4986 Total APU Weight 354.1 LBS

See applicable technical manuals for leading particulars.

APU SERVICE RECORD

DESCRIPTION OF INSPECTIONS, REPAIRS AND OVERHAULS

Mechanic must endorse all inspections and repairs with name, rating and certificate number.

DATE	ACCUMULATIVE TOTALS				DESCRIPTION OF WORK PERFORMED
	HOURS		CYCLES		
	SINCE NEW	SINCE O / H	SINCE NEW	SINCE O / H	
Dec 03, 11	0	0	0	0	3800708-1 NEW PRODUCTION UNIT P-4986
					SERIES 16 CHANGE NONE
					Article Preserved per MIL-E-5607 on this date. This treatment considered adequate for a period of TWO (2) years.
					Chris Carey 126
12/12/2011	0	0	0	0	APU - INSTALLED IN AC 5004 ATIS ABY
					TOTALS TO DATE

Honeywell

Engines Product Center
111 S 34th St
Phoenix, AZ 85034
USA

July 5, 2007

Gerard Cavanie
Honeywell Aerospace
Customer Service Engineer at Airbus
4 Avenue Saint Granier
31300 Toulouse
France

Gerard,

Please be advised that effective with S/N P-3600 for the 131-9A APU we no longer include a LLC for the Load Compressor Rotor P/N 3822400-5. This part is not concidared to be life limitied. The parts listed in Table One of Engnie Manual 49-00-00 dtd 11/17/2006 are the correct Life Limited Components.

Any APU before S/N P-3600 would have a LLC card supplied for P/N 3822400-5 which can be used for life tracking but no longer required.

Sincerely,

Honeywell

for Larry Glindeman
Customer Quality Pogram Manager
Engines Product Center
Tel.: +1 602 231 2101
Email: larry.glindeman@honeywell.com

DATE	ENGINE HOURS	ENGINE HOURS	REMARKS, INSPECTIONS, REPAIRS, AND ADJUSTMENTS	SIGNATURE
10/7/19	TSN 8020:27	CSN 19243	APU P/N 3800708-1 S/N P-4986 Model 131-9A	
	TSO N/A	CSO N/A	**DESCRIPTION OF WORK PERFORMED:** ENGINE DISASSEMBLED TO THE EXTENT NECESSARY TO PERFORM	
			REPAIR, INSPECTED, REPAIRED AND TESTED IAW MANUFACTURER'S MANUAL 49-27-29 AND CUSTOMER INSTRUCTIONS. TSR/CSR:0.	
			**********	
			INSPECTIONS COMPLIED WITH: N/A	
			SERVICE BULLETINS COMPLIED WITH: SEE SERVICE BULLETIN SECTION OF LOG BOOK.	
			PARTS REPAIRED OR REPLACED THIS VISIT: SEE TRACE INPUT PAGE	
			NDC / LIFE LIMITED PARTS: SEE NDC / LIFE LIMITED PARTS RECORD	
			THIS APU HAS BEEN REPAIRED/INSPECTED IN ACCORDANCE WITH THE CURRENT REGULATION OF THE FEDERAL AVIATION ADMINISTRATION	
			AND IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO WORK PERFORMED. PERTINENT DETAILS OF WORK PERFORMED ARE ON FILE	
			AT THIS AGENCY UNDER REPAIR ORDER NUMBER **337207641**	
			HONEYWELL AEROSPACE CERTIFIED REPAIR STATION	
			ZN3R030M	
			INSPECTOR:	*BOB NAGLE*

Honeywell

NDC / Life Limited Parts

Date	TSN	CSN	APU P/N 3800708-1 S/N P-4986	CUSTOMER
10/7/19	8020:27	19243	Model 131-9A	ALASKA AIRLINES

Noun	As Received			As Shipped		Status
	P/N	S/N	Disposition	P/N	S/N	
FAN	3616140-10	P-0511	OVERHAUL	3616140-11	P-1196CC	3E
STARTER	2704506-4	5967	BENCH TEST	2704506-4	5967	1
FUEL CONTROL	441921-5	CUC17622	REPAIR	441921-5	CUC17622	2
LUBE MODULE	4131020-4	5127	REPAIR	4131020-4	5127	2
AIR/OIL COOLER	160494-1	LHTKK722	REPAIR	160494-1	LHTKK722	2
IGN UNIT	3888058-5	010218024295	SCRAPED	3888058-5	J19370032	5
SURGE VALVE	3291238-2	2636	OVERHAULED	3291238-2	280	3E
LOAD VALVE	3291432-1	3378	OVERHAULED	3291432-2	2323	3E
DE-OIL VALVE	4141028-3	MFR95273-2181	USED AS IS	4141028-3	MFR95273-2181	4
WIRE HARNESS	3888438-1	NSN	OVERHAULED	3888438-1	NSN	3E
TOTAL P SENSOR	3876226-1	061121461916	USED AS IS	3876226-1	061121461916	1
OIL HEATER		NOT INSTALLED	N/A		NOT INSTALLED	
DMM	3876287-1	GE-2052	BENCH TEST	3876287-1	GE-2052	1
IGV ACTUATOR	3886188-3	8407	OVERHAULED	3886188-3	4298	3E
GENERATOR	DNR			SHIPLESS		

Noun	As Received		As Shipped			Hours	Cycles	Remaining	Status
	P/N	S/N	Disposition	P/N	S/N				
TIE SHAFT	3822504-3	11P41360	OVERHAULED	3822504-3	11P41360	8020:27	19243	10757	3
LOAD COMP	3822400-5	11-162053-40763	INSPECTED	3822400-5	11-162053-40763	N/A	N/A	N/A	4
ENG. COMP	3822391-6	11-162053-40544	OVERHAULED	3822391-6	12-162053-49632	6640:48	17856	12144	3E
1ST T-WHEEL	3840310-3	11-156101-00305	SCRAPED	3840310-4	18-156101-08008	0	0	30000	5
2ND T-WHEEL	3840165-4	11-156101-08513	SCRAP	3840165-4	19-156101-00133	0	0	30000	5

REPAIR CODES 1-BENCH TEST 2-REPAIR 3-OVERHAUL 4- USED AS IS 5-NEW E- EXCHANGED

REPAIR ORDER: 337207641

HONEYWELL AEROSPACE CERTIFIED REPAIRED STATION ZN3R030M

INSPECTOR: *BOB NAGLE*

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG**	2024326

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
TAG Aero, LLC 1247 Apex Drive, Rock Hill, SC 29730 FAA CRS # 3UAR147C	33017

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	APU, GTCP131-9A	3800708-1	1	P-4986	INSPECTED

12. Remarks:

This component has been inspected and tested in accordance with current Honeywell publications manual ATA 49-27-29 revision 22, dated April 17, 2023. All flammable liquids have been purged and unit was preserved with MIL-PRF-6081 grade 10/10 lubricant for shipping and preservation purposes.
TSN: 8776.0 CSN: 20,651

There are no Airworthiness Directive applicable to this component.
Complied with 24 month preservation I/A/W SB 49-8028.

TAG Aero LLC Certifies that the work specified in blocks 11 and 12 was performed in accordance with EASA implementation rule part 145 approval and with respect to that work, the aircraft component is considered ready for release to service under EASA approval number EASA.145.6499

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 12.	
13b. Authorized Signature:	13c. Approval/Authorization No.:
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):

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.**	
14b. Authorized Signature: COPY Jesse K Russo	14c. Approval/Certificate No.: 3UAR147C
14d. Name (Typed or Printed): Jesse K. Russo	14e. Date (dd/mmm/yyyy): 07 JUL 2023

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.

tag .AERO

A UAS HOLDINGS COMPANY

1247 Apex Dr., Rock Hill, SC 29730
Ph: (803) 831-9390
FAA 3UAR147C / EASA.145.6499

P/N 3800708-1S/N P-4986 MODEL GTCP131-9A WO# 33017
This component has been inspected and tested in accordance with 49-27-29 Revision 22 dated April 17, 2023. Refer to shop report. 33017 for further details of this shop visit.

TSN: 8,776 / CSN: 20,651

Jesse K. Russo
July 07, 2023

DATE	ACCUMULATED ENGINE HOURS	ACCUMULATED	CORRECTIONS, REPAIRS AND ADJUSTMENTS	SIGNATURE

tag .AERO

A UAS HOLDINGS COMPANY

1247 Apex Dr., Rock Hill, SC 29730
Ph: (803) 831-9390
FAA 3UAR147C / EASA.145.6499

P/N 3800708-1 S/N P-4986 MODEL GTCP131-9A WO# WO- 8218
This component has been repaired in accordance with 49-27-29 Revision 22 dated April 17, 2023. Refer to shop Report WO-8218 for further details of this shop visit.

TSN: 8,777 / CSN: 20,654

Jesse K. Russo
October 26, 2023

10/23/2023 Data Conversion For ENGINE S/N P4986
WINDMM.EXE Version 3.04.03 BuildVersion 180117 131-9A Overhaul Version 04.51

1	Item Count	475	475	NUMBER ENTRIES IN DMM
2	SW Version	0000	0000	ECB SOFTWARE VERSION (SV)
3	APUser.pre	P	P	APU SERIAL NUMBER PREFIX
4	APUser.num1	00	00	APU SERIAL NUMBER (FIRST 2 DIGITS)
5	APUser.num2	00	00	APU SERIAL NUMBER (NEXT 2 DIGITS)
6	APUser.num3	49	49	APU SERIAL NUMBER (NEXT 2 DIGITS)
7	APUser.num4	86	86	APU SERIAL NUMBER (LAST 2 DIGITS)
8	APUser.suf			APU SERIAL NUMBER (SUFFIX 2 DIGITS)
9	APUhours_LO	8806	8806	APU HOURS Low Word
10	APUminutes	46	46	APU MINUTES
11	APUcycles_LO	20692	20692	APU CYCLES Low Word
12	ECS_OFFSET	-518	-5.180	ECS OFFSET DEGREES (SV)
13	FUELOFF100	83	0.830	FUEL FLOW OFFSET AT 100 POUNDS PPH
14	FUELOFF200	-905	-9.050	FUEL FLOW OFFSET AT 200 PPH
15	ABSTARTS	9	9	NUMBER OF UNSUCCESSFUL STARTS
16	APU_OPTIONS	9	9	APU OPTION FLAGS
	BIT 0: TRUE A321 ECS Min Derate			
	BIT 3: TRUE A318/319/320 ECS Min Derate			
17	FLTSTARTS	17	17	NUMBER OF INFLIGHT STARTS
18	ABFLTSTARTS	3	3	NUMBER OF UNSUCCESSFUL INFLIGHT STARTS
19	TURB_CYCLES	0	0	CYCLES SINCE TURBINE REPAIR (TB)
20	LC_CYCLES	0	0	CYCLES SINCE LOAD COMP REPAIR (LC)
21	EC_CYCLES	0	0	CYCLES SINCE ENGINE COMP REPAIR (EC)
22	CLOG_FILTER	0	0	NUMBER OF CLOGGED OIL FILTER INDICATIONS
23	OVRHAUL_HR	0	0	HOURS SINCE SHOP VISIT (SV)
24	OVRHAUL_MIN	0	0	MINUTES SINCE SHOP VISIT (SV)
25	INSTALL_HR	0	0	HOURS SINCE AIRPLANE INSTALLATION (SV)
26	INSTALL_MIN	0	0	MINUTES SINCE AIRPLANE INSTALLATION (SV)
27	ECS_HOURS	405	405	OPERATING TIME IN ECS HOURS
28	ECS_MINUTES	579	57.900	OPERATING TIME IN ECS MINUTES
29	FLT_HOURS	4	4	OPERATING TIME IN FLIGHT HOURS
30	FLT_MINUTES	249	24.900	OPERATING TIME IN FLIGHT MINUTES
31	HOT_TIME	7	0.700	OPERATING HOURS T2 GREATER 100 DEGF
32	COLD_TIME	0	0	OPERATING HOURS T2 LESS 0 DEGF
33	NMES	1302	1302	NUMBER OF MAIN ENGINE STARTS
34	HIGHSTARTS	0	0	NUMBER OF START ATTEMPTS ABOVE 25000 FT
35	BRRSTARTS	0	0	NUMBER OF STARTS OILTEMP LESS 0 DEGF
36	BRRRRSTARTS	0	0	NUMBER OF STARTS OILTEMP LESS -40 DEGF
37	LOWOILPR	0	0	NUMBER OF LOW OIL PRESSURE SHUTDOWNS
38	NUM3LOP	0	0	NUMBER OF 3 CONSECUTIVE LOP SHUTDOWNS
39	CONSECLOP	0	0	NUMBER OF CONSECUTIVE LOP SHUTDOWNS
40	HOT	2	2	NUMBER OF HIGH OIL TEMPERATURE SHUTDOWNS
41	OVRTMPGOV	0	0	NUMBER OF ONSPEED OVERTEMP SHUTDOWNS
42	OVRTMPSTRT	0	0	NUMBER OF STARTING OVERTEMP SHUTDOWNS
43	REVFLOW	0	0	NUMBER OF REVERSE FLOW SHUTDOWNS
44	NO_ACCEL	1	1	NUMBER OF NO ACCELERATION SHUTDOWNS
45	OVERSPEED	0	0	NUMBER OF OVERSPEED SHUTDOWNS

maldivian

APU P/N: 3800708-1, S/N: P-4986

DATE				
28-Oct-2023	TTSN / TCSN	8806.77	20692	APU INSTALLED ON 8Q-IAN, MSN 22347 REF 638122
	TSO / CSO	N/A	N/A	
	TSR/CSR	0.00	0	

A/C HOURS:	43084	DATE	SIGN/STAMP
A/C CYCLES:	23210	28-Oct-23	

maldivian

APU P/N: 3800708-1, S/N: P-4986

DATE				
24-Mar-2024	TTSN / TCSN	9843	21541	APU REMOVED FROM 8Q-IAN, MSN 2347 REF 644232
	TSO / CSO	N/A	N/A	
	TSR/CSR	1036.23	849	

A/C HOURS:	43913	DATE	SIGN/STAMP
A/C CYCLES:	23754	24-Mar-24	