



C&L Aerospace

APU Model: T-62T-40C14

Aircraft: ERJ-135

APU P/N: M4504113A

LSV Date for Refurbishment: January 6, 2022



TSN: 28151.0

TSLR: 0.0

CSN: 39944

CSLR: 0

LSV Date: January 6, 2022

T-62T-40C14 S/N SP-E0114217

SUMMARY:

This APU was inducted to NEXT MRO for LLP replacement where it was repaired, tested, long term preserved and released on January 6th 2022. There are no outstanding Airworthiness Directives or Alert Service Bulletins due at this time.

LIFE LIMITED PARTS:

ITEM	P/N	TSN	CSN	LIFE LIMIT	CYCLES REMAINING
Turbine Wheel	4504847	0.0	0	15000	15000
Compressor Wheel	4504253	9095.7	15050	On Condition	N/A

LRU ACCESSORIES:

ITEM	P/N	TSN
Fuel Solenoid Valve	4952316-2	UNK
Servo Control Bleed Air Valve	4956056	UNK
Anti-Surge Valve	4950899	0.0
Low Oil Pressure Switch	4952366	UNK
High Oil Temperature Switch	4952397-1	UNK
Speed Sensor Assy	4504185D	UNK
Ignitors	4952382	UNK
Engine Control Harness	4504230B	UNK
Fuel Control Assy	4504616B	UNK
Flow Divider	4951486	UNK
Fuel Filter	4953126	0.0
Ignition Exciter	4950745	UNK
Data Memory Module	4505576A	UNK
Air/Oil Cooler	4950929	UNK
Ambient Pressure	4504196A	UNK



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T-62T-40C14 S/N SP-E0114217

SB EMBODIMENT:

SB NUMBER			
4504112-49-8	4504112-49-22	4504112-49-27	4504112-49-35
4504112-49-11	4504112-49-23	4504112-49-29	4504112-49-36
4504112-49-19	4504112-49-24	4504112-49-30	4504616-49-2
4504112-49-21	4504112-49-26		

***Note:**

The information contained in this document has been provided by C&L Aerospace, LLC and is accurate to the best of their knowledge. C&L Aerospace, LLC is not liable for any errors which may be contained in this document. Parties interested in the products shown in this document are responsible for verifying the accuracy of all subject matter.

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NExT MRO

AN AEROSPACE ENGINEERING GROUP COMPANY



FAA REPAIR STATION # FIDR645K

SHOP VISIT REPORT



C&L AEROSPACE

WORK ORDER 1008438

UNIT P/N: M4504113A

S/N: SP-E0114217

MODEL APS 500R

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 7416	
4. Organization Name and Address: NExT MRO LLC 15800 N.W. 49th Avenue, Miami Gardens, FL 33014 USA, 305/230-4305 (FIDR645K)					5. Work Order/Contract/Invoice Number: 1008438 / R645114	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	APU, APS500R	M4504113A	1	SP-E0114217	REPAIRED	
12. Remarks: The work performed has been accomplished in accordance with 1461, ENGINE MANUAL, Revision # 17 DN 40C14-1 Revision Date 06/Jan/2021 Pertinent details are on file at this repair station under WO 1008438. - Turbine Wheel P/N: 4504847 S/N: HJ579 CSN: 0 Rem: 15000 cycles - Impeller P/N: 4504253 S/N: SIF1234 CSN: 15030 Rem: 34950 cycles APU TSN: 28151.00 CSN: 39944 Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and in respect to that work the component is considered ready for release to service under EASA Part-145 Approval Number: EASA 145.4449.						
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in 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:		14c. Approval/Certificate No.:
						FIDR645K
13d. Name (Typed or Printed)		13e. Date (dd/mm/yyyy):		14d. Name: (Typed or Printed)		14e. Date (dd/mm/yyyy):
				RAUL BRAVO		06/Jan/2022

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 block 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with national regulations by the user/installer before the aircraft may be flown.

INCOMING PHOTOS



GENERAL INFORMATION

RECEIVED DATE:24-OCT-2021

CUSTOMER PO: R645114

CUSTOMER REASON FOR REMOVAL

Unknown

CUSTOMER REQUESTED WORKSCOPE

Inspect and quote to repair

INCOMING APU TIMES AND CYCLES

TOTAL CYCLES AT REMOVAL: 39944 Cyc

TOTAL HRS AT REMOVAL: 28151.00 Hrs.



NExT MRO

AN AEROSPACE ENGINEERING GROUP COMPANY

FAA REPAIR STATION # FIDR645K

WORK ORDER NUMBER: 1008438
CUSTOMER: C&L AEROSPACE
PART NUMBER: M4504113A
SERIAL NUMBER: SP-E0114217
MODEL: APS 500R
DATE: 01-06-2022

RECEIVING REPORT

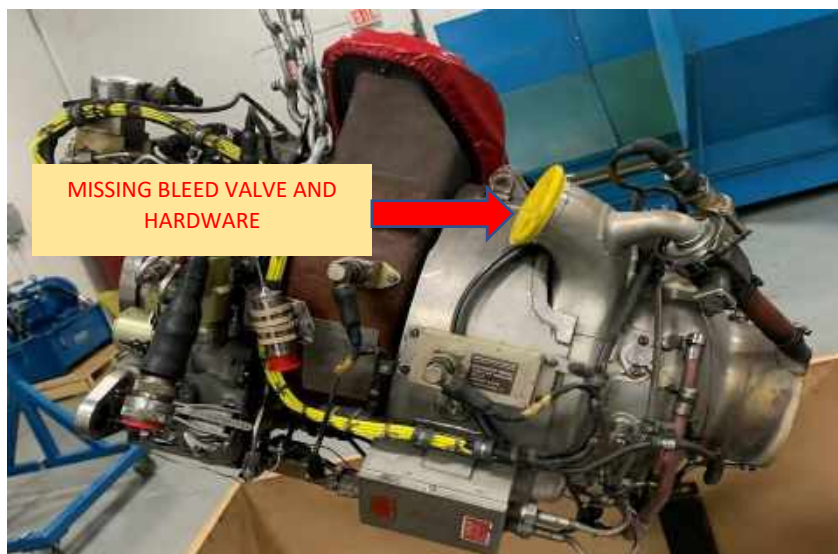
CONDITION OF APU WHEN RECEIVED

- ☒ UNIT RECEIVED OILY AND DIRTY
- ☐ UNIT RECEIVED IN DAMAGED CONDITION
- ☒ PHOTOS TAKEN
- ☐ UNIT RECEIVED DISASSEMBLED
- ☐ UNIT RECEIVED IN GOOD VISIBLE CONDITION
- ☒ UNIT ROTATING GROUP TURNS FREELY
- ☐ UNIT ROTATING GROUP SEIZED
- ☒ UNIT WITH MISSING PARTS

MISSING PARTS

- BLEED AIR P/N: 4952829
- CLAMP P/N: 162404-1
- BLEED DUCT P/N: 4952281

REMARKS: N/A





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AN AEROSPACE ENGINEERING GROUP COMPANY

FAA REPAIR STATION # FIDR645K



WORK ORDER NUMBER: 1008438
CUSTOMER: C&L AEROSPACE
PART NUMBER: M4504113A
SERIAL NUMBER: SP-E0114217
MODEL: APS 500R
DATE: 01-06-2022

TEARDOWN REPORT

TAIL PIPE INSPECTION

- ☐ MINOR WEAR
- ☐ CRACKS AND NICKS
- ☐ MISSING MATERIAL
- ☐ EROSION
- ☐ METAL IN TAILPIPE
- ☐ PARTS BENT
- ☐ PARTS BURNED
- ☒ NO DAMAGE NOTED
- ☐ OTHER: _____

INLET INSPECTION

- ☐ FOREIGN OBJECT DAMAGE (F.O.D)
- ☐ MINOR NICKS
- ☐ MAJOR NICKS ON ROTATING GROUP
- ☐ MISSING MATERIAL
- ☒ THICK AND HARD DIRT DEPOSITS
- ☒ CORROSION
- ☐ OIL LEAKS EVIDENCE
- ☐ NO DAMAGE NOTED
- ☐ OTHER: _____

REMARKS: N/A



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SERIAL NUMBER: SP-E0114217
MODEL: APS 500R
DATE: 01-06-2022

TEARDOWN REPORT

COMBUSTION ASSY

- ☐ UNIT IN GOOD VISIBLE CONDITION
- ☒ CRACKED SURFACES
- ☐ CRAKED WELDED JOINTS
- ☐ SURFACES DEFORMED
- ☐ WORN RING
- ☐ GROMMET IN BAD CONDITION
- ☐ DEFORMED
- ☐ TBC IN GOOD VISIBLE CONDITION
- ☐ OTHER: _____

TURBINE NOZZLE

P/N: 4505479

- ☐ NO VISIBLE DAMAGE
- ☒ MISSING MATERIAL
- ☒ VANES CRACKED
- ☒ WORN VANES
- ☐ BURNED AND ERODED
- ☒ NICKS
- ☐ UNIT IN GOOD VISIBLE CONDITION
- ☐ OTHER: _____

REMARKS: N/A





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SERIAL NUMBER: SP-E0114217
MODEL: APS 500R
DATE: 01-06-2022

TEARDOWN REPORT

TURBINE WHEEL

P/N: 4504847

- ☐ BLADE TIPS WORN
- ☐ CRACKS IN SADDLE AREA
- ☐ BLADE TIPS CRACKED AND ERODED
- ☐ MISSING MATERIAL
- ☐ HUB CRACKED
- ☐ NICKS
- ☒ NO VISIBLE DAMAGE
- ☒ OTHER: LIFE LIMIT REACHED

COMPRESSOR WHEEL

P/N: 4504253

- ☐ BLADE TIPS WORN
- ☐ CRACKS IN SADDLE AREA
- ☐ BLADE TIPS CRACKED AND ERODED
- ☐ MISSING MATERIAL
- ☐ HUB CRACKED
- ☐ SHAFT JOURNALS WORN
- ☒ NO VISIBLE DAMAGE
- ☐ OTHER: _____

REMARKS: _____

TEARDOWN REPORT

INLET HOUSING

P/N: M4504117B

- ☒ HOUSING WORN
- ☐ HOUSING CRACKED
- ☐ HOUSING ERODED
- ☐ HOLES IN BAD CONDITION
- ☐ UNIT IN GOOD VISIBLE CONDITION
- ☒ OTHER: CORROSION

DIFFUSER

P/N: 4507965

- ☐ NICKS
- ☐ DENTS
- ☒ CRACK
- ☒ WORN VANES
- ☐ UNIT IN GOOD VISIBLE CONDITION
- ☐ OTHER: MISSING MATERIAL

REMARKS:

COMPRESSOR DIFFUSER: EROSION. VISIBLE CRACKS ON VANES

INLET HOUSING: ABRADABLE MATERIAL DETERIORATED.





NEXT MRO

AN AEROSPACE ENGINEERING GROUP COMPANY



FAA REPAIR STATION # FIDR645K

WORK ORDER NUMBER: 1008438
CUSTOMER: C&L AEROSPACE
PART NUMBER: M4504113A
SERIAL NUMBER: SP-E0114217
MODEL: APS 500R
DATE: 01-06-2022

TEARDOWN REPORT

DAMAGE OR FINDING REPORT (FORM 100)

WORK ORDER FORM 100

Page No. 1

NEXt MRO LLC

15800 N.W. 49th Avenue
Miami Gardens, FL 33014 USAFAA CRS No: FIDR645K
WORK ORDER: 1008438-21

305/230-4305

Customer: CLA001 / C&L AVIATION SERVICES LLC

Dept#:APU

Location:

Cust RO#: R645114

Step:FINAL QUALITY INSPECT1

Warranty Code:00 / 0

Mfr: HAMILTON

Goodthru AD#:

Outgoing M4504113A / APU, APS500R

S/N:SP-E0114217

Incoming P/N: M4504113A

Incoming S/N: SP-E0114217

Incoming Work Req.: REPAIR

Outgoing Work Req: REPAIR

Manual#: 1461

RevDate: 06/Jan/2021 Rev#: 17 DN 40C14-1

Tools: T0440001,T0440

Reason/Rm:

PLEASE INSPECT AND QUOTE TO REPAIR.

Date Recvd: 22/Oct/2021

Date Reqrd: 10/Dec/2021

Date Estmtd: 29/Oct/2021

PRELIMINARY INSPECTION:

DATE: 22/Oct/2021

INSPECTOR: RAUL BRAVO

P/N, S/N VERIFIED PER RO#,DATAPLATE

PRE TEST (Yes/No): N

DATE: 25/Oct/2021

INSPECTOR: RAUL BRAVO

NOT TESTED AT THIS TIME

HIDDEN DAMAGE:

N

TEARDOWN FINDINGS:

THE UNIT ARRIVED ON ITS CRATE FOR A TURBINE WHEEL
REPLACEMENT DUE LIFE LIMIT REACHED. IT ROTATES FREELY.
IT ARRIVED WITH CAPS AND COVERS INSTALLED.

THE UNIT ARRIVED WITHOUT BLEED VALVE AND ITS HARDWARE:

- BLEED VALVE P/N:4952829
- CLAMP V-BAND P/N: 162401-1 QTY:2
- BLEED DUCT ASSY P/N: 4952281 QTY:1

THE BORESCOPE INSPECTION SHOWS SEVERAL DAMAGES ON THE
TURBINE NOZZLE AND INLET HOUSING. DETAILS ARE DESCRIBED AS
FOLLOW:

- TURBINE NOZZLE P/N: 4505479: BRANCHING CRACKS.
MISSING MATERIAL. SEVERAL CRACKS ON THE VANES TRAILING EDGES.
NICKS AND EROSION SIGNS.

-INLET AREA: MICROBIOLOGICAL GROWTH THROUGH THE INLET AREA.



WORK ORDER FORM 100

Page No. 2

NEX T MRO LLC

15800 N.W. 49th Avenue
Miami Gardens, FL 33014 USA

FAA CRS No: FIDR645K

WORK ORDER: 1008438-21

305/230-4305

Customer: CLA001 / C&L AVIATION SERVICES LLC

Dept#:APU

Location:

Cust RO#: R645114

Step:FINAL QUALITY INSPECTI

Warranty Code:00 / 0

Mfr: HAMILTON

Goodthru AD#:

Outgoing M4504113A / APU, APS500R

S/N:SP-E0114217

TEARDOWN FINDINGS:

CORROSION. RUBBING MARKS BETWEEN IMPELLER AND INLET HOUSING.

- COMBUSTION LINER: CARBON DEPOSITS. HEAT DISCOLORATION AND
OXIDATION.

THE UNIT WILL BE DISASSEMBLED TO EXAMINE THE DAMAGES EXTENSION.

THE UNIT WAS DISASSEMBLED, CLEANED, AND INSPECTED IN
REFERENCE TO MANUFACTURER'S PROCEDURES. DAMAGE ARE DESCRIBED
BELOW:- TURBINE NOZZLE P/N: 4505479 NSN. BRANCHING CRACKS
AND MISSING MATERIAL ON VANE TIPS.

DAMAGE OUT OF LIMITS (SEE DAMAGE REPORT PAG 3)

- INLET HOUSING ASSY P/N: M4504117B S/N: 0814. CORROSION
ABRADABLE MATERIAL DETERIORATED. CONTAINMENT RING(4502472)
STUCK.DAMAGE OUT OF LIMIT (SEE DAMAGE REPORT PAG 4)- SEAL ASSEMBLY, CARBON FACE P/N: 4951586 S/N: 025349
CARBON FACE WORN OUT.
DAMAGE OUT OF LIMITS (SEE DAMAGE REPORT PAG 5)- COMBUSTOR LINER ASSY P/N: 4504383A S/N: B04-008
CRACKS ON THE INNER HEAT SHIELD FORWARD COOLING HOLES
PERMISSIBLE DAMAGE (SEE DAMAGE REPORT PAG 7)- COMPRESSOR DIFFUSER P/N: 4507965 NSN. CRACKS ON VANES.
DAMAGE OUT OF LIMITS (SEE DAMAGE REPORT PAG 8)

TECHNICIAN:DAVID PEREZ

DATE: 28/Oct/2021 INSPECTOR: RAUL BRAVO

FINAL INSPECTION BEFORE ASSEMBLY:

DATE: 17/Dec/2021 INSPECTOR: RAUL BRAVO

CORRECTIVE ACTION:

THE UNIT WAS DISASSEMBLED, CLEANED, INSPECTED, REPAIRED,



WORK ORDER FORM 100

Page No. 3

NEXT MRO LLC

15800 N.W. 49th Avenue
Miami Gardens, FL 33014 USA

FAA CRS No: FIDR645K

WORK ORDER: 1008438-21

305/230-4305

Customer: CLA001 / C&L AVIATION SERVICES LLC

Dept#:APU

Location:

Cust RO#: R645114

Step:FINAL QUALITY INSPECTI

Warranty Code:00 / 0

Mfr: HAMILTON

Goodthru AD#:

Outgoing M4504113A / APU, APS500R

S/N:SP-E0114217

CORRECTIVE ACTION:

ASSEMBLED, AND TESTED IN REFERENCE TO MANUFACTURER'S PROCEDURES

- TURBINE NOZZLE P/N: 4505479 NSN WAS REPLACED IN REFERENCE
TO MANUFACTURER'S PROCEDURES.

P/N ON: 4505479 S/N ON: 200162HP

- INLET HOUSING P/N: M4504117B S/N: 0814 WAS REPLACED
IN REFERENCE TO MANUFACTURER'S PROCEDURES.

P/N ON: M4504117B S/N ON: V32-C415.

- CONTAINMENT RING P/N: 4502472 NSN WAS REPLACED IN REFERENCE
TO MANUFACTURER'S PROCEDURES. S/N ON: M0844

- SEAL ASSEMBLY CARBON FACE P/N: 4951586 S/N: 025349
WAS REPLACED IN REFERENCE TO MANUFACTURER'S PROCEDURES

P/N ON: 4951586 S/N: V17F34449

- COMBUSTOR LINER ASSY P/N: 4504383A S/N: B04-008.
CRACKS FOUND ARE WITHIN LIMITS IN ACCORDANCE WITH
MANUFACTURER'S PROCEDURES.

- COMPRESSOR DIFFUSER P/N: 4507965 NSN WAS REPLACED IN
REFERENCE TO MANUFACTURER'S PROCEDURES.

P/N ON: 4507965 S/N ON: MFR-T2310-2130

- ROLLER BEARING P/N: 4951506 WAS REPLACED.

S/N OFF: 3331-3540 S/N ON: 3331-2604

THE FOLLOWING COMPONENTS FAILED DURING TESTING
PROCEDURES:

- HARNESS P/N 4504230B S/N OFF:8743 S/N ON:V28-S356

- AMBIENT PRESSURE P/N: 4504196A S/N OFF: 0108202
S/N ON:V00-S150824

THE UNIT WAS TESTED AND IT IS OK TO RETURN TO SERVICE

TECHNICIAN:DAVID PEREZ

DATE: 06/Jan/2022 INSPECTOR: RAUL BRAVO



WORK ORDER FORM 100

Page No. 4

NExT MRO LLC

15800 N.W. 49th Avenue
Miami Gardens, FL 33014 USA

FAA CRS No: FIDR645K

WORK ORDER: 1008438-21

305/230-4305

Customer: CLA001 / C&L AVIATION SERVICES LLC

Dept#:APU

Location:

Cust RO#: R645114

Step:FINAL QUALITY INSPECTI

Warranty Code:00 / 0

Mfr: HAMILTON

Goodthru AD#:

Outgoing M4504113A / APU, APS500R

S/N:SP-E0114217

MODIFICATION/SERVICE BULLETINS:

Test Data Used: EM 40C14-1 REV 17 DATED JUNE 1, 2021

Test Technician: DAVID PEREZ

DATE: 06/Jan/2022

Inspector: RAUL BRAVO

DATE: 06/Jan/2022

Final Inspection:RAUL BRAVO

DATE: 06/Jan/2021

Technician: DAVID PEREZ

DATE: 06/Jan/2021

Inspector: RAUL BRAVO

DATE: 06/Jan/2022

ADDITIONAL COMMENTS:

N/A

Quoted units MUST be approved within 7 business days. If a disposition is not received after 30 days, storage fees may apply. If this unit is declared Beyond Economical Repair (BER) and NExT MRO is requested to scrap the unit in-house, it is the understanding that all remaining Serviceable components within the unit may be tagged as such and become the property of NExT MRO. Any Customer unit remaining at NExT MRO for more than 90 calendar days, where the quote is neither approved nor rejected from the date of quote, may be subject to evaluation and storage fees and after 180 days be considered abandoned material subject to immediate disposition in accordance with NExT MRO internal processes.

Standard Warranty Policy Period (unless otherwise stated):

Bench Check/Inspect - No Warranty, Repair - 6 Months, Overhaul - 12 Months

MAINTENANCE RELEASE RECORD

THE COMPONENT IDENTIFIED ABOVE WAS REPAIRED IN ACCORDANCE WITH THE CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION, AND IS APPROVED FOR RETURN TO SERVICE. OTHER PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION.

Approved For Return to Service by RAUL BRAVO

Date 06/Jan/2022





NEXT MRO

AN AEROSPACE ENGINEERING GROUP COMPANY



FAA REPAIR STATION # FIDR645K

WORK ORDER NUMBER: 1008438
CUSTOMER: C&L AEROSPACE
PART NUMBER: M4504113A
SERIAL NUMBER: SP-E0114217
MODEL: APS 500R
DATE: 01-06-2022

LIFE LIMITED PARTS



NEXT MRO

AN AEROSPACE ENGINEERING GROUP COMPANY



FAA REPAIR STATION # FIDR645K

LIFE LIMIT PARTS SUMMARY

CUSTOMER: C&L AEROSPACE

APU MODEL: APS 500R

APU P/N: M4504113A

WO #: 1008438

APU SERIAL #: SP-E0114217

DATE: 01-06-2022

COMPONENT	P/N	S/N	INSTALL DATE	CYCLES SINCE NEW	LIFE LIMIT CYCLES	REMAINING CYCLES
TURBINE WHEEL	4504847	HJ529	JAN 06,2022	0	15,000	15,000
IMPELLER	4504253	SIF1234	OCT 4,2012	15050	50,000	34,950

Note: The life-limited parts summary is a result of data supplied by the customer and where applicable, data from the records system.



NEX TMRO

AN AEROSPACE ENGINEERING GROUP COMPANY

FAA REPAIR STATION # FIDR645K



WORK ORDER NUMBER 1008438
CUSTOMER C&L Aerospace
PART NUMBER M4504113A
SERIAL NUMBER SP-E0114217
MODEL APS 500R
DATE: 01-06-2022

INVENTORY

DESCRIPTION	QTY	P/N RECEIVED	S/N RECEIVED	P/N SHIPPED	S/N SHIPPED	WORKSCOPE
Cooler, Air/ Oil	1	4950929	754186-007	4950929	754186-007	TESTED
Exciter, Ignition	1	4950475	J11230363	4950475	J11230363	TESTED
Data Memory	1	4505576A	2643	4505576A	2643	TESTED
Valve Solenoid- Fuel	1	4952316-2	1550	4952316-2	1550	TESTED
Anti-Surge	1	4950899	2216	4950899	2216	TESTED
Fuel Control Assy	1	45046168	05-02-91	45046168	05-02-91	TESTED
Flow Divider	1	4501486	0348	4501486	0348	TESTED
Gearbox Assy	1	4504235C	110554	4504235C	110554	TESTED
Switch Low Oil P	1	4952366	832	4952366	832	TESTED
Ambient Pressure	1	4504196A	0108202	4504196A	V00-S150824	TESTED
Switch, High Oil T	1	4952397-1	0117	4952397-1	0117	TESTED
Engine Harness	1	4504230B	S743	4504230B	V28-S356	INSPECTED
Ignitor	1	4952382	NSN	4952382	NSN	TESTED
Ignitor	1	4952382	NSN	4952382	NSN	TESTED
Bleed Air Valve	1	Missing	Missing	4956056	0120	TESTED
Speed Sensor	1	4504185D	0172199	4504185D	0172199	TESTED



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WORK ORDER NUMBER: 1008438
CUSTOMER: C&L AEROSPACE
PART NUMBER: M4504113A
SERIAL NUMBER: SP-E0114217
MODEL: APS 500R
DATE: 01-06-2022

COMPONENT CHANGE RECORD

COMPONENT	REMOVED P/N	REMOVED S/N	INSTALLED P/N	INSTALLED S/N	DATE
Turbine Nozzle	4505479	NSN	4505479	200162HP	01-06-2022
Air Inlet Housing	M4504117B	0814	M4504117B	V32-C415	01-06-2022
Containment Ring	4502472	NSN	4502472	M0844	01-06-2022
Seal Carbon Face	4951586	025349	4951586	V17F34449	01-06-2022
Diffuser	4507965	NSN	4507965	MFR-T2310-2130	01-06-2022
Roller Bearing	4951506	3331-3540	4951506	3331-2604	01-06-2022
Ambient Pressure	4504196A	0108202	4504196A	V00-S150824	01-06-2022
Harness	4504230B	S743	4504230B	V28-S356	01-06-2022



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MODEL: APS 500R
DATE: 01-06-2022

AD AND SB INCORPORATED

AIRWORTHINESS DIRECTIVE REPORT

The Airworthiness Directive (AD) report describes AD's complied with at this shop visit.

AD NUMBER	AMENDMENT	DESCRIPTION	STATUS
N/A	N/A	None apply to the APS 500 at this time	N/A

SERVICE BULLETIN REPORT

The following service bulletins were incorporated in this APU during this shop visit

SB NUMBER	REVISION NUMBER	DATE	DESCRIPTION
N/A	N/A	No SB were incorporated during this shop visit.	N/A



NEXT MRO

AN AEROSPACE ENGINEERING GROUP COMPANY



FAA REPAIR STATION # FIDR645K

WORK ORDER NUMBER: 1008438
CUSTOMER: C&L AEROSPACE
PART NUMBER: M4504113A
SERIAL NUMBER: SP-E0114217
MODEL: APS 500R
DATE: 01-06-2022

TEST DATA SHEET

WO: 1008438
CUST: C&L AEROSPACE

ENG T-62T-40C14
DATE 6-Jan-22

P/N: M4504113A
S/N: SP-E0114217

TEST DATA	TEST STEP			
	No Load	Bleed Air Load	Shaft Load	Shaft & Bleed Air Load
Baro Pressure (psi)	14.76	14.76	14.76	14.75
Inlet Temperatute T1 °F	73.20	73.80	74.30	73.70
Bleed Air flow (lb/min)	-	90.80	-	72.23
Cor. Bleed Air Flow (lb/min)	-	91.11	-	23.20
Compressor Pressure (psi)	-	44.13	56.70	47.35
Load Pressure (psi)	-	52.27	14.96	60.29
Load pressure cor. (psi)	-	52.27	-	60.30
Bleed Air temp. °F	-	446.50	230.10	446.70
Cor. Bleed Air temp °F	-	446.50	-	446.70
Engine EGT 1 °F	617.10	1286.00	683.40	1117.00
Engine EGT 2 °F	611.90	1278.80	672.90	1102.40
Tail Pipe EGT °F	609.60	1275.90	672.20	1101.70
Cor tail pipe EGT °F	-	1275.90	0.00	1101.10
Turbine Vibration (g)	3.18	2.10	2.90	2.30
Accessory Vibration (g)	0.17	0.11	0.70	0.96
Tail Pipe pressure (psi)	14.35	14.38	14.40	14.38
Oil pressure (psi)	68.11	68.51	65.68	68.19
Oil temperature °F	227.60	215.20	238.10	225.00
Gear box Air pressure (psi)	0.17	0.10	0.10	0.15
Fuel temperature (°F)	71.70	72.10	71.70	71.20
Fuel pressure (psi)	15.96	15.57	15.98	16.46
Cor. Shaft load Kw	0.00	0.00	18.00	10.70
Fuel flow (lb/h)	96.90	188.60	109.90	171.60
Corrected Fuel Flow (lb/h)	98.00	190.80	111.20	173.00
N1 speed (rpm)	63465.00	63490.00	63470.00	63464.00
OPERATING LIMITS				
Min. Air Flow Lb/min	-	81.10	-	-
Max. EGT corrected °F	-	-	-	1175.40
Min. Press Load cor (psi)	-	51.26	-	56.35
Max. cor. Load temp °F	-	473.40	-	473.10
Max cor. Fuel flow (lb/h)	-	-	-	183.70

OUTGOING BSI PHOTOS



Fig. 01



Fig. 02



Fig. 03



Fig. 04



Fig. 05



Fig. 06



Fig. 07



Fig.08



Fig.09



Fig. 10



Fig.11



Fig.12



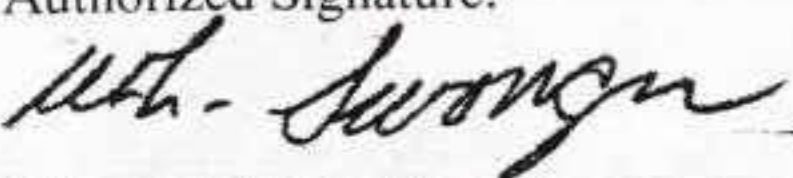
Fig. 13



Fig.14



Fig.15

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 5628418 SR 12.000	
4. Organization Name and Address: Hamilton Sundstrand Power Systems Division of Hamilton Sundstrand Corporation 4400 Ruffin Road PO Box 85757 San Diego, CA 92186-5757 PT1357NM			5. Work Order/Contract/Invoice Number: 5628418 SR 00252607			
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	WHEEL, TURBINE	4504847	N/A	1	HJ529	NEW
13. Remarks: AIRWORTHINESS APPROVAL This WHEEL, TURBINE is a subcomponent of a TSO Authorization.						
14. 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.			19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 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.: ODA810310NE		20. Authorized Signature:		21. Approval/Certificate No.:
17. Name (Typed or Printed): W. L. SWONGER		18. Date (m/d/y): Aug 08 2013		22. Name (Typed or Printed):		23. Date (m/d/y):
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 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 parts/components/assemblies from the airworthiness authority of the country specified in Block 1.						
Statements in Block 14 and 19 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.						



Hamilton Sundstrand

A United Technologies Company
HAMILTON SUNDSTRAND
4400 RUFFIN RD
PO BOX 85757
SAN DIEGO CA 92123
UNITED STATES

Hamilton Sundstrand PACKING SLIP with Certification of Conformance

SHIPMENT ID: 773920
PACK SLIP: 23610500
PS PAGE: 1 of 1
DATE: 08/15/13
CUST PO#: 00252607
STOCKBILL#: 30295616
ORDER: 5628418 SR

SOLD-TO: 143966
ATC AEROSPACE
2901 NW 27TH AVE
POMPANO BEACH FL 33069
UNITED STATES

SHIP-TO: 143967
ATC AEROSPACE
2901 NW 27TH AVE
POMPANO BEACH FL 33069
UNITED STATES

COMSD

Line Number: 12.000
P.O. ITEM# PART NUMBER
4504847

DESCRIPTION
WHEEL, TURBINE

QTY SHIPPED
1

ORDERED BY: rot repl

U/M
EA

Related Order Number:

CUST. PN:
NSN#: N/A

Shipment ID
773920



Serial Number
HJ529

CERTIFICATION OF CONFORMANCE

This certifies that products supplied herein conform to the specification(s), drawing(s), contract and/or order(s) that are referenced hereon. Records that document the inspection and test of these products are maintained on file. All work is performed in accordance with our approved ISO9001 plus AS9100 quality system.

Marino "Augi" Aguilera, Quality Assurance

HAMILTON SUNDSTRAND INSPECTION

DATE

CUSTOMER SIGN-OFF

DATE

HSS6644-2

Shipment ID Page: 2 of 5

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130.3 AIRWORTHINESS APPROVAL TAG PT10519NE	3. Form Tracking Number: 20535384671
4. Organization Name and Address: BRATT & WHITNEY 2625 ROYAL SOUTH PKWY ATLANTA, GA 30340 US	SOUTHERN LOGISTICS CENTER	5. Work Order Contract Invoice Number: 535384671 Page 1 of 2

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status
1	NOZZLE, TURBINE	4505479	11	200087HP 200088HP 200091HP 200094HP 200095HP 200096HP 200101HP 200102HP 200103HP 200113HP	NEW

12. Remarks: AIRWORTHINESS APPROVAL TSO: C77A ETSO: EASA IM.210.10017321
This NOZZLE is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (Including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.

13a. Certifies the items specified 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.: ODA800004NE	14b. Authorized Signature:	14c. Approval/Certificate No.:
13d. Name Typed or Printed: KEVIN MCGREW	13e. Date/d/mm/yyyy: 09/SEP/2020	14d. Name Typed or Printed:	14e. Date/d/mm/yyyy:

User/Installer Responsibilities:

It is important to understand that the issuance of this document alone does not automatically constitute authority to install the aircraft engine/proper parts. 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) and/or other parts 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.

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either as or upon a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

Copie Certifiée - Certified True Copy
 Timbre - Stamp: **20535384671**
 Nom - Name: **ADA A. S. VERM**
 Signature:
 Date: **11 DEC 2020**
 Quantity/Quantity: **11** de/total
 and original must be certified as copie certifiée / and original must be certified as copie certifiée
 is shipped under this certified true copy certificate

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3. AIRWORTHINESS APPROVAL TAG PT10019NE		3. Form Tracking Number: 20535384671	
4. Organization Name and Address: PRATT & WHITNEY 3625 ROYAL SOUTH PKWY ATLANTA, GA 30349 US		SOUTHERN LOGISTICS CENTER		5. Work Order/Contract/ Invoice Number: 535384671 Page 2 of 2	
6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	NOZZLE, TURBINE	4505479	CONTD	200114HP	NEW

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 09/SEP/2020

Form Tracking Number: 20535384671

FAA Eligibility for Part: 4505479
T-62T-40C14

1. Approving Civil Aviation Authority/Country FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form B130-3 AIRWORTHINESS APPROVAL TAG PT1001BNE SOUTHERN ENGINE CENTER		3. Form Tracking Number 20532476026	
4. Organization Name and Address: PRATT & WHITNEY 3401 ROYAL SOUTH DRIVE CHRYSTAL, GA 30708-5103				5. Work Order/Contract Invoice Number 532476026 Page 1 of 1	

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Stock Work
1	NOZZLE TURBINE	4505479	9	200023HP 200024HP 200025HP 200026HP 200027HP 200028HP 200040HP 200041HP 200042HP	NEW

12. Remarks: AIRWORTHINESS APPROVAL ISO CTTA ETSO EASA IM 210 (001732)
This NG22LE is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.

13a. ☒ Approved design data and items in accordance with the requirements of Block 12.
☐ Non-approved design data specified in Block 12.

13b. ☐ 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 TSO 14, Code of Federal Regulations, part 43 and in respect to that work, the item is approved for return to service.

13c. Approval/Authorization for: ODA800004NE	13d. Authorized Signature:	13e. Approved/Certified by:
13f. Name/Typed or Printed: CESAR MENDOZA	13g. Date (dd/mm/yyyy): 06/FEB/2020	13h. Date (dd/mm/yyyy):

User/Installer Responsibilities

It is important to understand that the existence of this document does not constitute authorization for the user/installer to alter the aircraft engine propeller etc. without the approval of the manufacturer. The user/installer is responsible for the engine propeller etc. in accordance with the requirements of the applicable regulations. If the user/installer is not a certificated mechanic, the user/installer must obtain an inspection certificate issued in accordance with the relevant regulations before the aircraft may be flown.

The conditions and requirements for TSO approval of this article are described in the standards. It is the responsibility of the user/installer to ensure that the aircraft complies with the TSO standards. TSO articles must be approved for installation per the applicable airworthiness requirements.

FAA Form B130-3(02-14)

Copie Certifiée - Certified True Copy
 Timbre - Stamp: 800228799
 Nom - Name: PRATT & WHITNEY
 Signature: [Signature]
 Date: 06/FEB/2020
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BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 06/FEB/2020

Form Tracking Number: 20532476026

FAA Eligibility for Part: 4505479
T-62T-40C14

1. Approving Civil Aviation Authority/Country FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10010NE		3. Form Tracking Number: 20534176766	
4. Organization Name and Address: PRATT & WHITNEY 3025 ROYAL SOUTH AVE ATLANTA, GA 30345 US		SOUTHERN LOGISTICS CENTER		5. Work Order/Contract Invoice Number: 534176766 Page 1 of 1	

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	NOZZLE, TURBINE	4505479	7	200145HP 200146HP 200147HP 200148HP 200157HP 200159HP 200161HP	NEW

12. Remarks: AIRWORTHINESS APPROVAL TSO: C77A ETSO: EASA IM 210.1001732
This NOZZLE is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (Including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.

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.		14a. ☐ 14 CFR 43.9 Return to Service ☐ Draw 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: <i>Cesar Mendoza</i>	13c. Approval Authorization No: ODA800004NE	13d. Authorized Signature:	14c. Approval/Certificate No:
13e. Name/Typed or Printed: CESAR MENDOZA	13f. Date (mm/dd/yyyy): 10/JUN/2020	14d. Name/Typed or Printed:	14e. Date (mm/dd/yyyy):

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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.
The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either as or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

FAA Form 8130-3(02-14)

NSN: 0052-00-012 3006

Copie Certifiée - Certified True Copy

Timbre - Stamp: 80225799

Nom - Name: ABNA SALEM

Signature: *ABNA SALEM*

Date: 17 DEC 2020

Quantité/Quantity: 7

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BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT	
Date: 10/JUN/2020	Form Tracking Number: 20534176766
FAA Eligibility for Part: 4505479 T-62T-40C14	

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT	
Date: 23/MAR/2020	Form Tracking Number: 20533127353
FAA Eligibility for Part: 4505479 T-62T-40C14	

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10019NE		3. Form Tracking Number: 20533732146	
4. Organization Name and Address: PRATT & WHITNEY 3629 ROYAL SOUTH PKWY. ATLANTA, GA 30349 US		5. Work Order/Change Invoice Number: 533732146		Page 1 of 1	
6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status Code
1	DIFFUSER, COMPRESSOR	4507965	4	MFR-T2310-2115 MFR-T2310-2119 MFR-T2310-2191 MFR-T2310-2194	NEW
12. Remarks: AIRWORTHINESS APPROVAL TSO: C77A ETSO: EASA.IM.210.10017321 This DIFFUSER is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.					
13a. ☒ Certified the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation. ☐ Not approved design data specified in Block 12		14a. ☐ 14 CFR 43.9 Return to Service ☐ Other requested 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 this work, the items are approved for return to service.			
13b. Authorized Signature: <i>David A Henry</i>	13c. Approval Authorization No: ODA800004NE	14b. Authorized Signature:		14c. Approval/Certificate No:	
13d. Name (Type or Printed): DAVID A HENRY	13e. Date (dd-mm-yyyy): 08/MAY/2020	14d. Name (Type or Printed):		14e. Date (dd-mm-yyyy):	
15. User/Installer Responsibilities: It is important to understand that the execution of this document alone does not automatically constitute authority to install the aircraft engine/propeller/aircraft. 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 higher airworthiness authority accept aircraft engine(s)/propeller(s)/aircraft 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 record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either as a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.					

FAA Form 8130-3102-14

NSN: 0352-00-012-9005

Copie Certifiée - Certified True Copy

Timbre - Stamp: 80225799

Nom - Name: ABBA SALEM

Signature: *ABBA SALEM*

Date: 17 DEC 2020

Qualité/Quality: 4

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BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT	
Date: 08/MAY/2020	Form Tracking Number: 20533732146
FAA Eligibility for Part: 4507965 T-62T-40C14	

1. Approving Civil Aviation Authority/Country FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3 AIRWORTHINESS APPROVAL TAG PT10019NE		3. Form Tracking Number 20532479126	
4. Organization Name and Address PRATT & WHITNEY 3625 ROYAL SOUTH DR SW ATLANTA, GA 30349 US		5. Work Order/Contract Invoice Number 532479126		Page 1 of 1	

6. Item	7. Description	8. Part Number	9. Quantity	10. Service Number	11. Status Code
1	DIFFUSER, COMPRESSOR	4507965	2	MFR-T2310-2122 MFR-T2310-2174	NEW

12. Remarks: AIRWORTHINESS APPROVAL TAG, CTTA ETSO, EASA IM 210.10017321
This DIFFUSER is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.

13a. ☒ Certified 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. ☐ 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 was 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.	
13c. Authorized Signature <i>David A Henry</i>	13d. Approval Authorization No. ODA800004NE	13e. Authorized Signature	13f. Approval Certificate No.
13g. Name/Typed or Printed DAVID A HENRY	13h. Date/dmm/yyyy 06/FEB/2020	13i. Name/Typed or Printed	13j. Date/dmm/yyyy

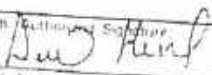
User/Installer Responsibilities.
It is important to understand that the issuance of this document does not automatically constitute authority to install the aircraft engine/propeller/rotor, where the user/installer performs work in accordance with the national regulations of an airworthiness authority different from the airworthiness authority of the country specified in Block 1. It is essential that the user/installer ensure that his/her supervisor/authority accepts aircraft structural properties released from the airworthiness authority of the country specified in Block 1. Statements in Block 13a and 13d do not constitute work/aircraft certification. In all cases, aircraft maintenance should contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.
The conditions and tests required for ESO approval of this article are minimum performance standards. It is the responsibility of those installers that must enter into or within a specific type of work or attempt to determine that the aircraft installation conforms to within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

FAA Form 8130-3/02-141

NSN. 0052-00-012-9035

Copie Certifiée - Certified True Copy
Timbre - Stamp: 800 228 779
Nom - Name: PRATT & WHITNEY
Signature: *[Signature]*
Date: 17/DEC/2020
Quantité/Quantity: 2
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BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT	
Date: 06/FEB/2020	Form Tracking Number: 20532479126
FAA Eligibility for Part: 4507965 T-62T-40C14	

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10019NE		3. Form Tracking Number: 19527842607	
4. Organization Name and Address: HOATT & WATNEY 3741 SOUTHWIDE INDUSTRIAL CT SE ATLANTA GA 30354-3218 US		GEORGIA DIST. CENTER		5. Work Order/Contract/Invoice Number: 527842607 Page 1 of 1	
6. Item #	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	DIFFUSER, COMPRESSOR	4507965	6	MFR-T2310-1617 MFR-T2310-2051 MFR-T2310-2055 MFR-T2310-2067 MFR-T2310-2068 MFR-T2310-2085	NEW
12. Remarks: AIRWORTHINESS APPROVAL TSO: C77A ETSO EASA IM.210.10017321 This DIFFUSER is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.					
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.: ODA800004NE			
13d. Name/Typed or Printed: DAVID A HENRY		13e. Date/dd/mm/yyyy: 25/FEB/2019		14. Other request 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:		14c. Approval Certificate No.:	
		14d. Name/Typed or Printed:		14e. Date/dd/mm/yyyy:	
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/rotor. 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 further airworthiness authority accepts aircraft engine/propeller/rotor/rotor from the airworthiness authority of the country specified in Block 1. Statements in Block 12a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations of the country where the aircraft may be flown. The conditions and tests required by TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.					

Copie Certifiée - Certified True Copy

Timbre - Stamp: 80228799

Num - Name: DAVID A HENRY

Signature: 

Date: 17/DEC/2020

Quantity: 6

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NSN: 0052-00-012 9005

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 25/FEB/2019

Form Tracking Number: 19527842607

FAA Eligibility for Part: 4507965
T-62T-40C14

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10019NE GEORGIA DIST. CENTER		3. Form Tracking Number: 19528349823	
4. Organization Name and Address: PRATT & WHITNEY 3781 SOUTHSIDE INDUSTRIAL CT SE ATLANTA, GA 30354-3216 US				5. Work Order/Contract Invoice Number: 528349823 Page 1 of 1	
6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	DIFFUSER, COMPRESSOR	4507965	6	MFR-T2310-1569 MFR-T2310-1619 MFR-T2310-1730 MFR-T2310-1807 MFR-T2310-2016 MFR-T2310-2082	NEW
12. Remarks: AIRWORTHINESS APPROVAL TSO C77A ETSO EASA IM210 10017321 This DIFFUSER is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (Including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.					
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.		14a. ☐ 14 CFR 42.9 Return to Service ☐ Other regulations 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: <i>Alan J. Burch</i>	13c. Approval Authorization No. ODA800004NE	14b. Authorized Signature		14c. Approval Certificate No.	
13d. Name (Typed or Printed): ALAN J. BURCH	13e. Date (dd/mm/yyyy): 05/APR/2019	14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
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 higher airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) 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 record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					

~~The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.~~

FAA Form 8130-3(02-14)

NSN: 0052-00-012-9005

Copie Certifiée - Certified True Copy
 Timbre - Stamp: 800228797
 Nom - Name: ABMA SAEEM
 Signature: *[Signature]*
 Date: 17 DEC 2020
 Date: 17/12/2020
 Quantité/Quantity: 6
 et/and
 est/are
 shipped under this certified true copy certificate.

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 05/APR/2019

Form Tracking Number: 19528349823

FAA Eligibility for Part: 4507965
T-62T-40C14

1. Approving Civil Aviation Authority/Country FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10019NE		3. Form Tracking Number: 19531579541	
4. Organization Name and Address: PART 1 PARTNER 4615 ROYAL SOUTH FERRY ATLANTA, GA 30348-05		SOUTHERN LOGISTICS CENTER		5. Work Order/Contract Invoice Number: 531579541 Page 1 of 1	
6. Item Description	7. Part Number	8. Quantity	9. Repair Number	10. Status Code	
DIFFUSER, COMPRESSOR	4507965	7	MFR-T2310-2088 MFR-T2310-2106 MFR-T2310-2107 MFR-T2310-2108 MFR-T2310-2133 MFR-T2310-2136 MFR-T2310-2138	NEW	
12. Remarks: AIRWORTHINESS APPROVAL TSO: C77A ETSO EASA IM.210.10017521 This DIFFUSER is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.					
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. ☐ 14 CFR 43.B 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.		
13c. Authorized Signature: 	13d. Approval Authorization No: ODA800004NE	14a. Authorized Signature:	14b. Approver Certificate No:		
13e. Name (Typed or Printed): ALAN J. BURCH	13f. Date (dd/mm/yyyy): 03/DEC/2019	14c. Name (Typed or Printed):	14d. Date (dd/mm/yyyy):		
User/Installer Responsibilities:					
It is important to understand that the existence of this document alone does not automatically constitute authority to return the aircraft engine/proper article, when the user/installer performs work in accordance with the manual requirements 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 neither airworthiness authority accepts aircraft engine/proper article 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.					
The conditions and tests required for EMI approval in this article are minimum performance standards. It is the responsibility of those installing this article to verify that it is within a specific type or class of aircraft to determine that the aircraft installation complies with the EMI standard. TSO articles must be approved for installation per the applicable airworthiness requirements.					

FAA Form 8130-3(02-14)

NSN: 0052-00-012-9005

Copie Certifiée - Certified True Copy
 Timbre - Stamp: 800228799
 Nom - Name: BATA SALEM
 Signature: 
 Date: 17/11/2019
 Quantité/Quantity: 7
 cet article sera le certificat de copie certifiée
 is shipped under this certified true copy certificate.

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 03/DEC/2019

Form Tracking Number: 19531579541

FAA Eligibility for Part: 4507965
T-62T-40C14

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 20532092259A	
4. Organization Name and Address: Pratt & Whitney 3625 Royal South Pkwy Atlanta, GA 30349 US				5. Work Order/Contract/ Invoice Number: 532092259 Page 1 of 1		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	DIFFUSER, COMPRESSOR	4507965	6	MFR-T2310-1803 MFR-T2310-2111 MFR-T2310-2114 MFR-T2310-2116 MFR-T2310-2137 MFR-T2310-2139	NEW	

12. Remarks: AIRWORTHINESS APPROVAL TSO: C77A ETSO: EASA.IM.210.10058110
This DIFFUSER, COMPRESSOR is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.

This FAA Form 8130-3 corrects the error in Block 10 of the FAA Form 8130-3 for delivery 532092259, dated 10/JAN/2020 and does not cover conformity/condition/release to service.

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.

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:

Alan J. Burch

13c. Approval/Authorization No:

ODA800004NE

13d. Name (Typed or Printed):

ALAN J. BURCH

13e. Date (dd/mm/yyyy):

21/JAN/2020

14b. Authorized Signature:

[Signature]

14c. Approval/Certificate No:

20532092259A

14d. Name (Typed or Printed):

[Name]

14e. Date (m/d/y):

21/01/2020

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.

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 10/JAN/2020

Form Tracking Number: 20532092259

FAA Eligibility for Part: 4507965
T-62T-40C14

Copie Certifiée - Certified True Copy

Timbre - Stamp: 80.228799

Nom - Name: ANNA SALAZAR

Signature: 

Date: JJ / MMM / AAAA

17 DEC 2020

DD / MMM / YYYY

Quantité/Quantity 6 de/of 6

est expédié sous ce certificat de copie certifiée/
is shipped under this certified true copy certificate

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10019NE	3. Form Tracking Number: 19527361852
4. Organization Name and Address: PACIFIC & WHITELEY 2261 SOUTHWIDE INDUSTRIAL CT SE ATLANTA, GA 30354-3218 US	GEORGIA DISTRICT CENTER	5. Work Order/Contract Invoice Number: 527361852

6. Item #	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Notes
1	DIFFUSER, COMPRESSOR	4507965	6	MFR-T2310-2095 MFR-T2310-2098 MFR-T2310-2099 MFR-T2310-2102 MFR-T2310-2104 MFR-T2310-2105	NEW

12. Remarks: Page 1 of 1 AIRWORTHINESS APPROVAL TSO: C77A ETSO: EASA IM.210 (X)17321
This DIFFUSER is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.

13a. Certify 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.		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: <i>Alan J. Burch</i>	13c. Approval/Authorization No.: ODA800004NE	14b. Authorized Signature:	14c. Approval/Certificate No.:
13d. Name/Typed or Printed: ALAN J. BURCH	13e. Date/Minimum/yyyy: 18/JAN/2019	14d. Name/Typed or Printed:	14e. Date/Minimum/yyyy:

It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine partwork article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different from the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that neither airworthiness authority (a type aircraft engine) is properly identified from the airworthiness authority of the country specified in Block 1. Statements in Block 13b and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

The conditions and tasks required by TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

FAA Form 8130-3(02-14)

NSN: 0052-00-012-9005

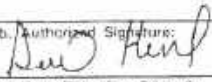
Copie Certifiée - Certified True Copy
Timbre - Stamp: **806 225 799**
Nom - Name: **ALAN J. BURCH**
Signature: *[Signature]*
Date: **17 DEC 2019**
Quantity: **6**
at expiration date on certificate to copie certified / shipped under this certified true copy certificate.

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 18/JAN/2019

Form Tracking Number: 19527361852

FAA Eligibility for Part: 4507965
T-62T-40C14

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10019NE		3. Form Tracking Number: 19528474984	
4. Organization Name and Address: PRATT & WHITNEY 3781 SOUTHSIDE INDUSTRIAL CT. SE ATLANTA, GA 30354-3218 US		GEORGIA DISTL. CENTER		5. Work Order/Contract/ Invoice Number: 528474984 Page 1 of 1	
6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	DIFFUSER, COMPRESSOR	4507965	6	MFR-T2310-1678 MFR-T2310-1724 MFR-T2310-1760 MFR-T2310-1772 MFR-T2310-1774 MFR-T2310-1786	NEW
12. Remarks: AIRWORTHINESS APPROVAL TSO: C77A ETSO: EASA IM.210.10017321 This DIFFUSER is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (Including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.					
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.		14a. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, this work identified in Block 11 and described in Block 12 was accomplished in accordance with the 14. Code of Federal Regulations, part 43 and in respect to this work, the items are approved for return to service.			
13b. Authorized Signature: 	13c. Approval/Authorization No. ODA800004NE	14b. Authorized Signature:	14c. Approval/Certificate No.		
13d. Name(Typed or Printed): DAVID A HENRY	13e. Date(dd/mm/yyyy): 16/APR/2019	14d. Name(Typed or Printed):	14e. Date(dd/mm/yyyy):		
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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.					
The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.					
FAA Form 8130-3(02-14)			NSN: 0052-00-012-9005		

Copie Certifiée - Certified True Copy

Timbre - Stamp: 800 228 799

Nom - Name: ABYLA SAEDEM

Signature: 

Date: 17 Dec 2020

Quantité/Quantity: 6

Le/Expéditeur/Issued by: 

ou réapprouvé sous le certificat de copie certifiée/ or reapproved under this certified true copy certificate

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT	
Date: 16/APR/2019	Form Tracking Number: 19528474984
FAA Eligibility for Part: 4507965 T-62T-40C14	



Pratt & Whitney

A United Technologies Company
400 Main St East Hartford, CT 06118

PACKING LIST
Ship From:
P&W SOUTHERN LOGISTICS CENTER

3625 ROYAL SOUTH PKWY
ATLANTA, GA 30349 US

Delivery No. 536807542

Sold To: P&W COMPONENT SOLUTIONS GLTC ATTN 4905 STARIHA DRIVE MUSKEGON, MI 49441 US		Sold To Code: 600702		Ship To: VSE AVIATION 12840 84TH AVE RD MIAMI, FL 33156-6515 US		Ship To Code: 217088				
Customer No: 4503952839		Item:		Customer Code:		Ship To:		Ship Method: FX4		
Part Number 4951586	Description SEAL CAR 81	Qty	UOM EA	Case 0203998980	Type CTN	Weight 15.600LB	Length 16	Width 16	Height 14	2.074

This certifies that engine parts listed here are new parts and have been inspected in accordance with applicable drawings and specifications. Parts included in this shipment for engine models approved by the applicable Aviation Authority were manufactured under the authority of the applicable production certificate. This document does not contain technical data subject to the EAR or the ITAR.



PWA Form 2501A Rev 06/13

CUSTOMER COPY

R36276 12/28/20

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 20536807542	
4. Organization Name and Address: PRATT & WHITNEY 3625 ROYAL SOUTH PKWY ATLANTA, GA 30349 US		PT10019NE SOUTHERN LOGISTICS CENTER		5. Work Order/Contract/Invoice Number: 536807542 Page 1 of 4	
6. Item 1	7. Description: SEAL CARBONFACE	8. Part Number: 4951586	9. Quantity: 81	10. Serial Number: 4951586 V15H31422 V15H31429 V15H31430 V15H31431 V15H31432 V15H31439 V15H31446 V15H31451 V15H31460	11. Status/Work: NEW
12. Remarks: TSO #: C77A ETSO #: EASA.IM.210.10017321 AIRWORTHINESS APPROVAL This SEAL CARBONFACE is a subcomponent of a TSO authorization.					
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. 13c. 13d. 13e. 13f. 13g. 13h. 13i. 13j. 13k. 13l. 13m. 13n. 13o. 13p. 13q. 13r. 13s. 13t. 13u. 13v. 13w. 13x. 13y. 13z. 13aa. 13ab. 13ac. 13ad. 13ae. 13af. 13ag. 13ah. 13ai. 13aj. 13ak. 13al. 13am. 13an. 13ao. 13ap. 13aq. 13ar. 13as. 13at. 13au. 13av. 13aw. 13ax. 13ay. 13az. 13ba. 13bb. 13bc. 13bd. 13be. 13bf. 13bg. 13bh. 13bi. 13bj. 13bk. 13bl. 13bm. 13bn. 13bo. 13bp. 13bq. 13br. 13bs. 13bt. 13bu. 13bv. 13bw. 13bx. 13by. 13bz. 13ca. 13cb. 13cc. 13cd. 13ce. 13cf. 13cg. 13ch. 13ci. 13cj. 13ck. 13cl. 13cm. 13cn. 13co. 13cp. 13cq. 13cr. 13cs. 13ct. 13cu. 13cv. 13cw. 13cx. 13cy. 13cz. 13da. 13db. 13dc. 13dd. 13de. 13df. 13dg. 13dh. 13di. 13dj. 13dk. 13dl. 13dm. 13dn. 13do. 13dp. 13dq. 13dr. 13ds. 13dt. 13du. 13dv. 13dw. 13dx. 13dy. 13dz. 13ea. 13eb. 13ec. 13ed. 13ee. 13ef. 13eg. 13eh. 13ei. 13ej. 13ek. 13el. 13em. 13en. 13eo. 13ep. 13eq. 13er. 13es. 13et. 13eu. 13ev. 13ew. 13ex. 13ey. 13ez. 13fa. 13fb. 13fc. 13fd. 13fe. 13ff. 13fg. 13fh. 13fi. 13fj. 13fk. 13fl. 13fm. 13fn. 13fo. 13fp. 13fq. 13fr. 13fs. 13ft. 13fu. 13fv. 13fw. 13fx. 13fy. 13fz. 13ga. 13gb. 13gc. 13gd. 13ge. 13gf. 13gg. 13gh. 13gi. 13gj. 13gk. 13gl. 13gm. 13gn. 13go. 13gp. 13gq. 13gr. 13gs. 13gt. 13gu. 13gv. 13gw. 13gx. 13gy. 13gz. 13ha. 13hb. 13hc. 13hd. 13he. 13hf. 13hg. 13hi. 13hj. 13hk. 13hl. 13hm. 13hn. 13ho. 13hp. 13hq. 13hr. 13hs. 13ht. 13hu. 13hv. 13hw. 13hx. 13hy. 13hz. 13ia. 13ib. 13ic. 13id. 13ie. 13if. 13ig. 13ih. 13ii. 13ij. 13ik. 13il. 13im. 13in. 13io. 13ip. 13iq. 13ir. 13is. 13it. 13iu. 13iv. 13iw. 13ix. 13iy. 13iz. 13ja. 13jb. 13jc. 13jd. 13je. 13jf. 13jg. 13jh. 13ji. 13jj. 13jk. 13jl. 13jm. 13jn. 13jo. 13jp. 13jq. 13jr. 13js. 13jt. 13ju. 13jv. 13jw. 13jx. 13jy. 13jz. 13ka. 13kb. 13kc. 13kd. 13ke. 13kf. 13kg. 13kh. 13ki. 13kj. 13kl. 13km. 13kn. 13ko. 13kp. 13kq. 13kr. 13ks. 13kt. 13ku. 13kv. 13kw. 13kx. 13ky. 13kz. 13la. 13lb. 13lc. 13ld. 13le. 13lf. 13lg. 13lh. 13li. 13lj. 13lk. 13ll. 13lm. 13ln. 13lo. 13lp. 13lq. 13lr. 13ls. 13lt. 13lu. 13lv. 13lw. 13lx. 13ly. 13lz. 13ma. 13mb. 13mc. 13md. 13me. 13mf. 13mg. 13mh. 13mi. 13mj. 13mk. 13ml. 13mn. 13mo. 13mp. 13mq. 13mr. 13ms. 13mt. 13mu. 13mv. 13mw. 13mx. 13my. 13mz. 13na. 13nb. 13nc. 13nd. 13ne. 13nf. 13ng. 13nh. 13ni. 13nj. 13nk. 13nl. 13nm. 13nn. 13no. 13np. 13nq. 13nr. 13ns. 13nt. 13nu. 13nv. 13nw. 13nx. 13ny. 13nz. 13oa. 13ob. 13oc. 13od. 13oe. 13of. 13og. 13oh. 13oi. 13oj. 13ok. 13ol. 13om. 13on. 13oo. 13op. 13oq. 13or. 13os. 13ot. 13ou. 13ov. 13ow. 13ox. 13oy. 13oz. 13pa. 13pb. 13pc. 13pd. 13pe. 13pf. 13pg. 13ph. 13pi. 13pj. 13pk. 13pl. 13pm. 13pn. 13po. 13pp. 13pq. 13pr. 13ps. 13pt. 13pu. 13pv. 13pw. 13px. 13py. 13pz. 13qa. 13qb. 13qc. 13qd. 13qe. 13qf. 13qg. 13qh. 13qi. 13qj. 13qk. 13ql. 13qm. 13qn. 13qo. 13qp. 13qq. 13qr. 13qs. 13qt. 13qu. 13qv. 13qw. 13qx. 13qy. 13qz. 13ra. 13rb. 13rc. 13rd. 13re. 13rf. 13rg. 13rh. 13ri. 13rj. 13rk. 13rl. 13rm. 13rn. 13ro. 13rp. 13rq. 13rr. 13rs. 13rt. 13ru. 13rv. 13rw. 13rx. 13ry. 13rz. 13sa. 13sb. 13sc. 13sd. 13se. 13sf. 13sg. 13sh. 13si. 13sj. 13sk. 13sl. 13sm. 13sn. 13so. 13sp. 13sq. 13sr. 13ss. 13st. 13su. 13sv. 13sw. 13sx. 13sy. 13sz. 13ta. 13tb. 13tc. 13td. 13te. 13tf. 13tg. 13th. 13ti. 13tj. 13tk. 13tl. 13tm. 13tn. 13to. 13tp. 13tq. 13tr. 13ts. 13tt. 13tu. 13tv. 13tw. 13tx. 13ty. 13tz. 13ua. 13ub. 13uc. 13ud. 13ue. 13uf. 13ug. 13uh. 13ui. 13uj. 13uk. 13ul. 13um. 13un. 13uo. 13up. 13uq. 13ur. 13us. 13ut. 13uu. 13uv. 13uw. 13ux. 13uy. 13uz. 13va. 13vb. 13vc. 13vd. 13ve. 13vf. 13vg. 13vh. 13vi. 13vj. 13vk. 13vl. 13vm. 13vn. 13vo. 13vp. 13vq. 13vr. 13vs. 13vt. 13vu. 13vv. 13vw. 13vx. 13vy. 13vz. 13wa. 13wb. 13wc. 13wd. 13we. 13wf. 13wg. 13wh. 13wi. 13wj. 13wk. 13wl. 13wm. 13wn. 13wo. 13wp. 13wq. 13wr. 13ws. 13wt. 13wu. 13wv. 13ww. 13wx. 13wy. 13wz. 13xa. 13xb. 13xc. 13xd. 13xe. 13xf. 13xg. 13xh. 13xi. 13xj. 13xk. 13xl. 13xm. 13xn. 13xo. 13xp. 13xq. 13xr. 13xs. 13xt. 13xu. 13xv. 13xw. 13xx. 13xy. 13xz. 13ya. 13yb. 13yc. 13yd. 13ye. 13yf. 13yg. 13yh. 13yi. 13yj. 13yk. 13yl. 13ym. 13yn. 13yo. 13yp. 13yq. 13yr. 13ys. 13yt. 13yu. 13yv. 13yw. 13yx. 13yy. 13yz. 13za. 13zb. 13zc. 13zd. 13ze. 13zf. 13zg. 13zh. 13zi. 13zj. 13zk. 13zl. 13zm. 13zn. 13zo. 13zp. 13zq. 13zr. 13zs. 13zt. 13zu. 13zv. 13zw. 13zx. 13zy. 13zz.		
13b. Authorized Signature: DAVID A HENRY		13c. Approval/Authorization No: ODA800004NE		13d. Date(dd/mm/yyyy): 21/DEC/2020	
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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or while a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements. FAA Form 8130-3(02-14)					

NSN: 0052-00-012-9005

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 20536807542
4. Organization Name and Address: PRATT & WHITNEY 3625 ROYAL SOUTH PKWY ATLANTA, GA 30348 US	PT10019NE SOUTHERN LOGISTICS CENTER	5. Work Order/Contract/ Invoice Number: 536807542 Page 2 of 4

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	SEAL CARBONFACE	4951586	CONTD.	V15H31461 V15H31462 V15H31463 V15H31466 V15H31508 V15H31519 V15H31532 V15H31539 V15H31545 V17F34388 V17F34390 V17F34391 V17F34398 V17F34403 V17F34404 V17F34405 V17F34406 V17F34407 V17F34410 V17F34412 V17F34416 V17F34419 V17F34422 V17F34426 V17F34427 V17F34430 V17F34431 V17F34432 V17F34434 V17F34435	NEW

12. Remarks (Cont):

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:

13d. Name (Typed or Printed):
DAVID A HENRY

13c. Approval/Authorization No:

ODA800004NE

13e. Date (dd/mm/yyyy):

21/DEC/2020

14a. Other requirements 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 the 14 CFR Part 43, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

14b. Authorized Signature:

14d. Name (Typed or Printed):

14e. Date (dd/mm/yyyy):

User/Installer Responsibilities:

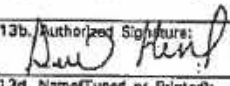
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness 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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 20536807542
4. Organization Name and Address: PRATT & WHITNEY 3825 ROYAL SOUTH PKWY ATLANTA, GA 30349 US	PT10019NE SOUTHERN LOGISTICS CENTER	5. Work Order/Contract/ Invoice Number: 536807542 Page 3 of 4

8. Item	7. Description	9. Part Number	10. Quantity	11. Serial Number	12. Status/Work
1	SEAL CARBONFACE	49S1586	CONTD	V17F34438 V17F34440 V17F34443 V17F34447 V17F34448 V17F34449 V17F34458 V17F34459 V17F34462 V17F34464 V17F34466 V17F34471 V17F34473 V17F34474 V17F34476 V17F34477 V17F34479 V17F34481 V17F34484 V17F34487 V17F34491 V17F34492 V17F34495 V17F34497 V17F34501 V17F34502 V17F34503 V17F34505 V17F34506 V17F34507	NEW

12. Remarks (Cont):

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: ODA800004NE		13d. Date(dd/mm/yyyy): 21/DEC/2020	
14a. Authorized Signature:		14b. Authorized Certificate No:	
14c. Name(Typed or Printed):		14d. Date(dd/mm/yyyy):	

User/Installer Responsibilities:

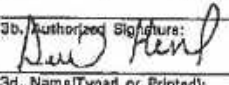
It is important to understand that the existence of this document, alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness 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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 20536807542
4. Organization Name and Address: PRATT & WHITNEY 3825 ROYAL SOUTH PKWY ATLANTA, GA 30349 US	PT10019NE SOUTHERN LOGISTICS CENTER	5. Work Order/Contract/ Invoice Number: 536807542 Page 4 of 4

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	SEAL CARBONFACE	4951586	CONTD	V17F34509 V17F34510 V17F34512 V17F34553 V17F34568 V17F34569 V17F34620 V17F34621 V17F34632 V17F34637 V17F34654	NEW

12. Remarks (Cont):

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.		14a. ☒ FAA CFR 40.8 Return to Service. ☐ Other regulations specified in Block 12. Certifies that unless otherwise specified in Block 12, the work submitted in Block 11 and described in Block 12 was accomplished in accordance with FAA Code of Federal Regulations, part 43 and in respect to that work, the work was approved for return to service.	
13b. Authorized Signature: 	13c. Approval/Authorization No: ODA800004NE	14b. Authorized Signature:	14c. Approve/Certificate No:
13d. Name (Typed or Printed): DAVID A HENRY	13e. Date (dd/mm/yyyy): 21/DEC/2020	14d. Name (Typed or Printed):	14e. Date (dd/mm/yyyy):

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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 19/DEC/2020

Form Tracking Number: 20536807542

FAA Eligibility for Part: 4951586
T-62T-40C14



Pratt & Whitney

A United Technologies Company
400 Main St East Hartford, CT 06118

PACKING LIST
Ship From:
P&W SOUTHERN LOGISTICS CENTER

3625 ROYAL SOUTH PKWY
ATLANTA, GA 30349 US

Delivery No.536807542

Sold To: P&W COMPONENT SOLUTIONS GLTC ATTN 4905 STARIHA DRIVE MUSKEGON, MI 49441 US		Sold To Code: 600702		Ship To: VSE AVIATION 12840 84TH AVE RD MIAMI, FL 33156-6515 US		Ship To Code: 217088				
Customer No: 4503952839	Item:	Customer Code:	Ship To	Ship Method FX4						
Part Number 4951586	Description SEAL CAR 81	Qty EA	UOM EA	Case 0203998860	Type CTN	Weight 15.600 LB	Length 16	Width 16	Height 14	2.074

This certifies that engine parts listed here are new parts and have been inspected in accordance with applicable drawings and specifications. Parts included in this shipment for engine models approved by the applicable Aviation Authority were manufactured under the authority of the applicable production certificate. This document does not contain technical data subject to the EAR or the ITAR.



PWA Form 2501A Rev 06/13

CUSTOMER COPY

R 36276 12/28/20

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10019NE		3. Form Tracking Number: 20536807542	
4. Organization Name and Address: PRATT & WHITNEY 3625 ROYAL SOUTH PKWY ATLANTA, GA 30349 US		SOUTHERN LOGISTICS CENTER		5. Work Order/Contract/Invoice Number: 536807542 Page 1 of 4	
6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	SEAL CARBONFACE	4951586	81	4951586 V15H31422 V15H31429 V15H31430 V15H31431 V15H31432 V15H31439 V15H31446 V15H31451 V15H31460	NEW
12. Remarks: TSO #: C77A ETSO #: EASA.IM.210.10017321 AIRWORTHINESS APPROVAL This SEAL CARBONFACE is a subcomponent of a TSO authorization.					
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. 14 CFR 43.9 Return to Service. ☐ Other regulations specified in Block 12. Certifies that unless otherwise specified in Block 12, the work identified in Block 11 was described in Block 12 and 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: <i>David A Henry</i>		13c. Approval/Authorization No: ODA800004NE		14a. Authorized Signature:	
13d. Name (Typed or Printed): DAVID A HENRY		13e. Date (dd/mm/yyyy): 21/DEC/2020		14b. Approved Certificate No:	
		14c. Name (Typed or Printed):		14d. Date (dd/mm/yyyy):	
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 higher airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) 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 record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.					

FAA Form 8130-3(02-14) NSN: 0052-00-012-9005

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 20536807542
4. Organization Name and Address: PRATT & WHITNEY 3625 ROYAL SOUTH PKWY ATLANTA, GA 30349 US	PT10019NE SOUTHERN LOGISTICS CENTER	5. Work Order/Contract/ Invoice Number: 536807542 Page 2 of 4

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	SEAL CARBONFACE	4951586	CONTD.	V15H31461 V15H31462 V15H31463 V15H31466 V15H31508 V15H31519 V15H31532 V15H31539 V15H31545 V17F34388 V17F34390 V17F34391 V17F34398 V17F34403 V17F34404 V17F34405 V17F34406 V17F34407 V17F34410 V17F34412 V17F34416 V17F34419 V17F34422 V17F34426 V17F34427 V17F34430 V17F34431 V17F34432 V17F34434 V17F34435	NEW

12. Remarks (Cont):

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:

13d. Name (Typed or Printed):
DAVID A HENRY

13c. Approval/Authorization No:

ODAB00004NE

13e. Date (dd/mm/yyyy):
21/DEC/2020

14a. ☐ 14 CFR 43.16 Return to Service. ☐ Other regulations specified in Block 12. Certifies that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 were accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return in service.

14b. Authorized Signature:

14d. Name (Typed or Printed):

14c. Approval/Certificate No:

14e. Date (dd/mm/yyyy):

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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10019NE	3. Form Tracking Number: 20536807542
4. Organization Name and Address: PRATT & WHITNEY 3825 ROYAL SOUTH PKWY ATLANTA, GA 30349 US	SOUTHERN LOGISTICS CENTER	5. Work Order/Contract/ Invoice Number: 536807542 Page 3 of 4

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	SEAL CARBONFACE	4951586	CONTD	V17F34438 V17F34440 V17F34443 V17F34447 V17F34448 V17F34449 V17F34458 V17F34459 V17F34462 V17F34464 V17F34466 V17F34471 V17F34473 V17F34474 V17F34476 V17F34477 V17F34479 V17F34481 V17F34484 V17F34487 V17F34491 V17F34492 V17F34495 V17F34497 V17F34501 V17F34502 V17F34503 V17F34505 V17F34506 V17F34507	NEW

12. Remarks (Cont):

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:

DAVID A HENRY

13c. Approval/Authorization No:

ODA800004NE

13e. Date(dd/mm/yyyy):

21/DEC/2020

13d. ☐ To C-17438 Pattern of Service ☐ Other regulation specified in Block 12
 Certified 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 relation to that work, the items are approved for return to service.

14b. Authorized Signature:

14c. Date(dd/mm/yyyy):

14d. Name(Typed or Printed):

14e. Date(dd/mm/yyyy):

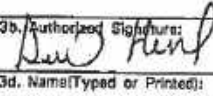
User/Installer Responsibilities:
 It is important to understand that the existence of this document, alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness 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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES	2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10019NE	3. Form Tracking Number: 20536807542
4. Organization Name and Address: PRATT & WHITNEY 3825 ROYAL SOUTH PKWY ATLANTA, GA 30349 US	SOUTHERN LOGISTICS CENTER	5. Work Order/Contract/ Invoice Number: 536807542 Page 4 of 4

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	SEAL CARBONFACE	4951586	CONTD	V17F34509 V17F34510 V17F34512 V17F34553 V17F34568 V17F34569 V17F34620 V17F34621 V17F34632 V17F34637 V17F34654	NEW

12. Remarks (Cont):

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: ODA800004NE	
13d. Name(Typed or Printed): DAVID A HENRY		13e. Date(dd/mm/yyyy): 21/DEC/2020		13f. Date(dd/mm/yyyy):	

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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 19/DEC/2020

Form Tracking Number: 20536807542

FAA Eligibility for Part: 4951586
T-62T-40C14

DOCUMENT OFFICIEL – OFFICIAL RECORD

1. Approving Competent Authority/Country Zatwierdzenie właściwego urzędu/ Kraj  Civil Aviation Authority Poland Urząd Lotnictwa Cywilnego Polska		2. AUTHORISED RELEASE CERTIFICATE POŚWIADCZENIE PRODUKCJI / OBSŁUGI EASA FORM 1 FORMULARZ NR 1 EASA			3. Form Tracking Number - Numer Poświadczenia. 800228266-000016 3681454	
4. Organisation Name and Address: Nazwa i adres organizacji: Hamilton Sundstrand Poland Sp. z o.o. Helmeńska 120 35-078 Rzeszów, Poland		5. Work Order / Contract / Invoice Numer Zamówienia / Kontraktu / Faktury 3280303 PRA1001				
6. Item - L.p. 000016	7. Description - Opis ELEMENT, FILTER-DIRT ALERT	8. Part No - Numer części 4951014	9. Qty - Ilość 178 EA	10. Serial No - Numer seryjny N/A	11. Status / Work Status / Czynność NEW	
12. Remarks - Uwagi: NOTE: Any serial numbers that may be present on labels or parts are for manufacturing purposes and need not be referenced on this certificate. UWAGA: Numery seryjne etykiet lub na części są wykorzystywane do wytwarzania i nie powinny być umieszczone w tym świadectwie. When applicable, shelf life is indicated on the item packaging - Gdy dotyczy, okres przydatności do użycia, jest określony na opakowaniu.						
13a. Certifies that the items identified above were manufactured in conformity to: Poświadcza się, że elementy podane powyżej zostały wyprodukowane zgodnie z: ☒ approved design data and are in a condition for safe operation zatwierdzonymi danymi projektowymi i są w stanie zapewnić bezpieczne użytkowanie ☐ non - approved design data specified in block 12 nie zatwierdzonymi danymi projektowymi wymienionymi w polu 12		14a. ☐ Part - 145.A.50 Release to Service - Poświadczenie wg Part 145.A.50 / ☐ Other regulation specified in block 12 - Inne Przepisy określone w polu 12 Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part 145 and in respect to that work the items are considered ready for release to service. - Poświadcza się, że jeżeli w polu 11 nie podano innego przepisu, to prace wymienione w polu 11 i opisane w polu 12, zostały wykonane zgodnie z Part - 145 i w odniesieniu do tych czynności dane części są uznane za zdolne do użytkowania.				
13b. Authorised Signature - Podpis osoby upoważnionej  		13c. Approval / Authorisation Number Nr Certyfikatu / Nr Upoważnienia PL.21G.0029		14b. Authorised Signature Podpis osoby upoważnionej N/A		
13d. Name Imię i nazwisko T. Boge		13e. Date (dd/mm/yyyy) - Data (dd/mm/yyyy) 17/DEC/2020		14c. Certificate/Approval Ref. No. Nr Certyfikatu / Nr Upoważnienia N/A		
				14d. Name - Imię i nazwisko N/A		
				14e. Date (dd/mm/yyyy) - Data (dd/mm/yyyy) N/A		

EASA Form 1 - Issue 2

USER/INSTALLER RESPONSIBILITIES: This certificate does not automatically constitute authority to install the item(s).

Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

Statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

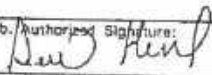
OBOWIĄZKI UŻYTKOWNIKA / INSTALATORA: Niniejsze poświadczenie nie stanowi automatycznego zezwolenia na zainstalowanie elementu.

Jeżeli użytkownik/instalator wykonuje prace zgodnie z przepisami władz zdolności do lotu, innych niż władze zdolności do lotu określone w polu 1, to istotne jest, żeby użytkownik/instalator dopilnował, żeby jego/jej władza zdolności do lotu zaakceptowała części poświadczone zgodnie z upoważnieniem władz zdolności do lotu wskazanych w polu 1.

Poświadczenia z pol 13a i 14a nie stanowią poświadczenia zainstalowania. W każdym przypadku zapisy obsługi statku powietrznego muszą zawierać poświadczenie zabudowy wydane przez użytkownika/instalatora zgodnie z przepisami krajowymi, zanim statek powietrzny zostanie dopuszczony do lotu.

P&WC 11773 (2019-11)

DOCUMENT OFFICIEL – OFFICIAL RECORD

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10019NE SOUTHERN LOGISTICS CENTER		3. Form Tracking Number: 20533348471	
4. Organization Name and Address: PRATT & WHITNEY 3625 ROYAL SOUTH PKWY ATLANTA, GA 30349 US				5. Work Order/Contract/ Invoice Number: 533348471 Page 1 of 1	
6. Item	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work
1	MATING RING	4951587	7	34180 34202 34210 34211 34212 34377 38060	NEW
12. Remarks: AIRWORTHINESS APPROVAL TSO: C17A ETSO: EASA IM.210.10017321 This MATING RING is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.					
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.		14a. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 12 Certifies that unless otherwise specified in Block 12, this 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: ODA800004NE	14b. Authorized Signature:		14c. Approval/Certificate No:	
13d. Name (Typed or Printed): DAVID A HENRY	13e. Date (dd/mm/yyyy): 08/APR/2020	14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.					

Copie Certifiée - Certified True Copy

Timbre - Stamp: **820228278**

Nom - Name: **DAVID A HENRY**

Signature: 

Date: **11/04/2020**

Quantité/Quantity: **7**

et expédié avec ce certificat de copie certifiée/ et shipped under this certified true copy certificate.

NSN: 0052-00-012-9005

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 08/APR/2020

Form Tracking Number: 20533348471

FAA Eligibility for Part: 4951587
T-62T-40C14

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 19528746569	
4. Organization Name and Address: PRATT & WHITNEY 3781 SOUTHSIDE INDUSTRIAL CT SE ATLANTA, GA 30354-3218 US		PT10019NE GEORGIA DISTL CENTER		5. Work Order/Contract/ Invoice Number: 528746569 Page 1 of 2	

6 Item	7 Description	8 Part Number	9 Quantity	10 Serial Number	11 Status/Work
1	MATING RING	4951587	25	33418 33420 33423 33424 33428 33429 33452 33454 33456 33472	NEW

12. Remarks: AIRWORTHINESS APPROVAL TSO: C77A ETSO: EASA.IM.210.10017321
This MATING RING is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (Including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.

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: *Alan J. Burch*

13c. Approval/Authorization No: **ODA800004NE**

13d. Name/Typed or Printed: **ALAN J. BURCH**

13e. Date(dd/mm/yyyy): **07/MAY/2019**

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: _____

14c. Approval/Certificate No: _____

14d. Name/Typed or Printed: _____

14e. Date(dd/mm/yyyy): _____

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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

FAA Form 8130-3(02-14)

NSN: 0052-00-012-9005

Copie Certifiée - Certified True Copy

Timbre - Stamp: 80028278

Etat - Name: KENYA SAVERM

Signature: *[Signature]*

Date: 18 DEC 2020

Quantity: 22

all copies must be certified as copies certified/

drawn under this certified true copy certificate

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 19528746569	
4. Organization Name and Address: PRATT & WHITNEY 3781 SOUTHSIDE INDUSTRIAL CT SE ATLANTA, GA 30354-3218 US		PT10019NE GEORGIA DISTR. CENTER		5. Work Order/Contract/Invoice Number: 528746569 Page 2 of 2	

6. Item	7. Description	8. Part Number	9. Quantity	10. Serial Number	11. Status/Work
1	MATING RING	4951587	CONTD	33474 33476 33479 33483 33484 33487 33508 33511 33521 33522 33523 33806 33914 33917 33918	NEW

12. Remarks (Cont):

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.

14a. ☐ 14 CFR 43.9 Return-to-Service; ☐ Other regulation specified in Block 12

14b. Certifies that, unless otherwise specified in Block 12, the work identified in Block 11 and reported in Block 12 was accomplished in accordance with 14 CFR 43. Code of Federal Regulations, part 43 and in respect to that work, the person is approved for repair in repair.

13b. Authorized Signature: 	13c. Approval/Authorization No: ODA800004NE	14c. Authorized Signature: 	14d. Approval/Authorization No: _____
13d. Name (Typed or Printed): ALAN J. BURCH	13e. Date (dd/mm/yyyy): 07/MAY/2019	14e. Name (Typed or Printed): _____	14f. Date (dd/mm/yyyy): _____

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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

FAA Form 8130-3(02-14)
NSN: 0052-00-012-9005

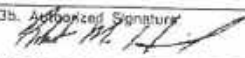
BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 07/MAY/2019

Form Tracking Number: 19528746569

FAA Eligibility for Part: 4951587
T-62T-40C14

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT	
Date: 13/DEC/2019	Form Tracking Number: 19531681636
FAA Eligibility for Part: 4951587 T-62T-40C14	

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG PT10019NE		3. Form Tracking Number: 20532148391	
4. Organization Name and Address: PRATT & WHITNEY 3625 ROYAL SOUTH PKWY ATLANTA, GA 30349 US		SOUTHERN LOGISTICS CENTER		5. Work Order/Contract/ Invoice Number: 532148391 Page 1 of 2	
6 Item	7 Description	8 Part Number	9 Quantity	10 Serial Number	11 Status/Work
1	MATING RING	4951587	12	32427 32428 32438 32439 32449 32451 32461 32466 34279 34282	NEW
12. Remarks: AIRWORTHINESS APPROVAL TSO: C77A ETSO: EASA IM.210.10017321 This MATING RING is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Complied with all applicable Airworthiness Directives and Service Bulletins (including Alert Service Bulletins). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.					
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.		14a. ☐ 14 GFR 42.8 Return to Service ☐ Other regulation specified in Block 12 Certified that unless otherwise specified in Block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with the 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: ODA800004NE	14b. Authorized Signature:		14c. Approval/Certificate No:	
13d. Name (Typed or Printed): ROBERT HICKS	13e. Date (dd/mm/yyyy): 14/JAN/2020	14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
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 Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown. The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.					

FAA Form 8130-3(02-14)

NSN: 0052-00-012-9005

Copie Certifiée - Certified True Copy

Timbre - Stamp: **800228278**

Nom - Name: **AMAR SAIEEN**

Signature: 

Date: **11/11/2019**
DD/MM/YYYY

Quantity/Quantity: **12** of **12**

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is shipped under this certified true copy certificate.

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 Block 3 and 14a do not constitute certification. In all cases, aircraft maintenance record must contain an installation certification issued in accordance with the national regulations of the country before the aircraft may be flown.

The conditions and tests required for TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the TSO standard. TSO articles must be approved for installation per the applicable airworthiness requirements.

FAA Form B130-3(O2-14) NSN: 0062-00-012-9006

BILATERAL AGREEMENT ELIGIBILITY ATTACHMENT

Date: 14/JAN/2020

Form Tracking Number: 20532148391

FAA Eligibility for Part: 4951587
T-62T-40C14

Quoted/Quantity 5 date 9
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is shipped under this certified true copy certificate

1. Approving Civil Aviation Authority/Country/FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 19528307318	
4. Organization Name and Address: KRAAT & WHITNEY 2711 SOUTHSEA INDUSTRIAL CT SE ATLANTA, GA 30354-3218 US		-PF10019NE		5. Work Order/Contract Invoice Number: 528307318 Page 1 of 1	
6. Item	7. Description	8. Part Number	9. Quantity	10. Part Number	11. Stock/Status
1	BLEED DUCT ASSY - FL-EXIBLE	4952281	9	M56423007 M56476002 M56843001 M56844003 M56975001 M59005001 M60483002 M60808001 M65573001	NEW
12. Remarks: AIRWORTHINESS APPROVAL TAG: C77A ETSO: EASA IM 210.1001121 This BLEED DUCT ASSY - FLEXIBLE is a subcomponent of a TSO authorization. This article meets the special requirements of Canada. Composed with all applicable Airworthiness Directives and Service Bulletins (including Alert, Service, Bulletin). For a complete list of eligibilities, reference the attached Bilateral Agreement Eligibility Attachment document.					
13a. Can this design be used in a condition for safe operation? ☒ Approved design data and use in a condition for safe operation. ☐ Non-approved design/data specified in Block 12.					
13b. Approved Design: <i>Alan J. Burch</i> ALAN J. BURCH		13c. Approval/Authorization No: ODA800004NE 13d. Expiration/Valid To: 02/APR/2019		13e. Authorized Signature: 13f. Authorized Signature: 13g. Authorized Signature: 13h. Authorized Signature:	
14. Remarks: This document is the property of the FAA. It is loaned to you for your use only. It is not to be reproduced, stored, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without the express written permission of the FAA. The FAA is not responsible for the accuracy or completeness of the information provided. The FAA is not responsible for the accuracy or completeness of the information provided. The FAA is not responsible for the accuracy or completeness of the information provided.					

1. Approving Civil Aviation Authority/Country: FAA/United States		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 174904		
4. Organization Name and Address: Ohlinger Industries, Inc. 1211 West Melinda Lane Phoenix AZ 85027 (OHRR712K)					5. Work Order/Contract/Invoice Number: 000180416		
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:		
1	AIR INLET HOUSING	M4504117B	1	V32-C415	REPAIRED		
12. Remarks: AI RDE09007 R1 HSPS PRM-1 REPAIR 219 HSPS SPM 490001 REV. 5 WORK ACCOMPLISHED PER PRATT AND WHITNEY MANUAL 40C14-2 C/I/R REV. 13 01/APR/2019 WORK ORDER: N/A WORK ACCOMPLISHED AND/OR SUPERVISED BY: MARK DOMSHER Certifies that the work specified in Block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the product/article is considered ready for release to service under EASA Part 145 approval no. EASA 145.4708 TSN: UNK CSN: UNK							
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.			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:		14c. Approval/Certificate No.:	
						OHRR712K	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):	
				DAWN WHITE		09/Nov/2020	
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.							

Ohlinger Industries, Inc.

FAA REPAIR STATION #OHRR712K
1211 WEST MELINDA LANE, PHOENIX, AZ. 85027
PH. 602-285-0911 FAX 602-285-5511

Findings Report

P/N: M4504117B	Part Name: A/I HOUSING	S/N: V32-C415
Lot No: 712K-174904	P.O. No: 000180416	W.O. No: N/A
<u>REPAIRED PER</u> HSPS SPM 490001 REV. 5 40C14-2 CIR REV. 13, 01/APR/2019 AI RDE09007 R1		
VISUAL INSPECTION: REJ	DIMENSIONAL INSPECTION: REJ	FPI: ACC
<u>TEARDOWN FINDINGS</u> CONTOUR DAMAGED		
<u>PARTS REPLACED</u> N/A		
<u>STATEMENT OF WORK</u> METAL SPRAY CONTOUR RDE09007 R1		
INSPECTOR: 2224		DATE: 11/09/20



1211 West Melinda Lane Phoenix, Arizona 85027
Phone: 602/285-0911 Fax: 602/285-5511

PACKING LIST

Special Instructions

☐ Cert Enclosed ☐ Partial Ship ☒ Complete Ship

Goods Received in Good Condition

By: _____

Date: _____

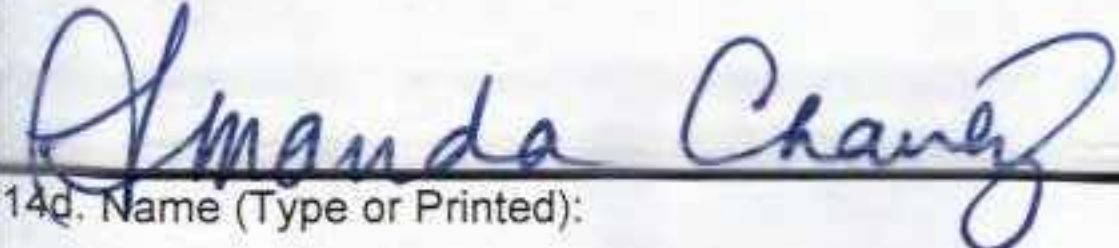
SOLD TO: ARGO TURBOSERVE CORPORATION
ATTN: ACCOUNTS PAYABLE
CITYVIEW CENTER
CHUBB AVENUE
LYNDHURST NJ 07071-3526
Phone: 513-942-4541 Fax: -513-9426

SHIP TO: ARGO TURBOSERVE CORP
2905 NW 27TH AVENUE
POMPANO BEACH FL 33069
Phone: 513-942-4541 Fax: -581-9426

Sales Order	Ship Num	Cust No	Order Date	Tax	Promised	Sales Rep	Customer P.O. Number	Mark Shipment	
0174904	0000	ATC	10/12/2020	E	12/28/2020	-NoSalesman	000180416		
F.O.B. Point		Ship Date		Shipped Via		Cartons	Weight	Tracking Number	Ins
OUR DOCK		1/21/2021		FEDEX 2ND DAY				947225571671	N

Item	T	QUANTITY			Unit	Part Number/Revision	Description
		Order	B/O	Ship			
001	S	1		1	EA	M4504117B	HSG AIR INLET 9A991.d Serial #: V32-C415

These commodities, technology, or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

1. Approving Civil Aviation Authority/Country: FAA / UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: 123917	
4. Organization Name and Address: Aerospace Systems and Components, Inc. 5201 East 36th St. North, Wichita, KS 67220					5. Work Order/Contract/Invoice Number: 191579	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
1	SERVO CONTROLLED BLEED AIR VALVE	4956056	1	0120	REPAIRED	
12. Remarks: The Service Order prescribing the actual work performed is attached and is identified with the same number as found in block 3 above. The prescribed work was performed in accordance with: Component Maintenance Manual Number: 49-53-15 REV 8 JUN 15/20 TSN: UNK TSR: 0.00 TSO: UNK CSN: UNK "Aerospace Systems & Components certifies that the work specified in Blocks 11 and 12 was performed in accordance with EASA part 145 approval, and with respect to that work, the aircraft component is considered ready for release to service under EASA approval number: EASA.145.4062."						
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in 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		14c. Approval/Certificate No.
						OI2R058L
13d. Name (Type or Printed):		13e. Date (dd/mm/yyyy):		14d. Name (Type or Printed):		14e. Date (dd/mm/yyyy):
				Amanda Chavez		14 Oct 2021
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 works 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 block 13a and 14a do not constitute installation certification. In all cases, the aircraft maintenance record must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						



AEROSPACE SYSTEMS & COMPONENTS, INC
FAA REPAIR STATION OI2R058L

FORM NO. 0702 (10/18)

5201 E. 36th ST. NORTH WICHITA, KANSAS 67220-3206
PHONE (316) 686-7392 FAX (316) 686-8542

REPAIR ORDER NO.

123917

CUSTOMER ARGO TURBOSERVE CORP. AEROS	ASC PART NUMBER RCVD. 1413-16 OW	CUSTOMER PART NUMBER RCVD. 4952829 OW	SERIAL NO. RCVD. 0120
CUSTOMER P.O. NUMBER 191579	PART DESCRIPTION SERVO CONTROLLED BLEED AIR VALVE	MFG. DATE 11/1/2009	DATE RECEIVED 9/8/2021
		SALES ORDER 108318	

CUSTOMER RETURN STATUS ☐ WARRANTY REQUEST ☐ FUNCTIONAL TEST ☐ OVERHAUL ☒ REPAIR ☐ UPDATE ☐ CHECK FOR OVH	☐ TEST & RECERTIFY ☐ QUOTATION ☐ FAILURE ANALYSIS ☐ CORRECTIVE ACTION ☐ TO QUAL ☐ Other:	CUSTOMER DISCREPANCY APPLY SB 4504112-49-44 VERIFIED: ☒ YES ☐ NO ☐ N/A RETURN TO SERVICE STATUS ☐ OVERHAULED ☒ REPAIRED ☐ INSPECTED ☐ REBUILT ☐ OTHER:
--	---	--

PRELIMINARY INSPECTION
VALVE FAILS INTENAL LEAKAGE. VALVE IS STUCK OPEN AT 3° WHEN CLOSING. FIALS LOW PRESSURE OPENING TIME. OPENS AT 32mA TO 52°.

MC 9/13/2021
INITIAL / STAMP DATE

IN PROCESS INSPECTION
CLOGGED FILTER AND FOD AROUND ORIFICE. SEAL RING BINDS IN FLOWBODY.

VALVE REQUIRES 4956056 UPDATE

MC 9/13/2021
INITIAL / STAMP DATE

HIDDEN DAMAGE INSPECTION
☒ HIDDEN DAMAGE INSPECTION NOT APPLICABLE ☐ HIDDEN DAMAGE INSPECTION ATTACHED ON SEPARATE SHEET

NOTE: HIDDEN DAMAGE INSPECTION APPLICABLE ONLY IF ITEM WAS INVOLVED IN AN ACCIDENT SITUATION.

AR 9/13/21
INITIAL / STAMP DATE

DESCRIPTION OF WORK PERFORMED
UNIT WAS: IN ACCORDANCE WITH DRAWING NUMBER*, AND/OR MAINTENANCE MANUAL NUMBER*: 49-53-15 REV 8 JUN 15/20

☐ OVERHAULED
☒ REPAIRED
☐ INSPECTED/FT
☐ REBUILT
☐ UPDATED
☐ OTHER:

IN CONJUNCTION WITH THE FOLLOWING (IF APPLICABLE) ENGINEERING DOCUMENTS: NA

UNIT WAS TESTED IN ACCORDANCE WITH: ☐ ATP/FT DOCUMENT NUMBER:
☒ ABOVE MENTIONED MAINTENANCE MANUAL AND APPLICABLE DOCUMENTS

UPDATE INFORMATION (IF APPLICABLE):
ASC PART NO. UPDATED TO: 1413-23 CUSTOMER PART NO. UPDATED TO: 4956056
SERIAL NUMBER UPDATED (NEW) TO: CUSTOMER P.O. NUMBER UPDATED TO:

ALL DEFECTIVE, CONSUMED AND/OR REQUIRED UPDATE COMPONENT PARTS/ASSEMBLIES HAVE BEEN REPLACED.

AR 10/14/21
INITIAL / STAMP DATE

FINAL INSPECTION
MEETS REQUIREMENTS OF FORM 4050
UNIT HAS BEEN INSPECTED AND PASSES ALL FUNCTIONAL TESTS AND IS BEING RETURNED TO SERVICE PER ALL REQUIRED ENGINEERING DRAWINGS*, MAINTENANCE MANUALS*, SPECIFICATIONS AND APPLICABLE FEDERAL AVIATION REGULATIONS

AC 10/15/21
INITIAL / STAMP DATE

Ac 10/15/21
INITIAL / STAMP DATE

NOTES TSN: UNK CSN: UNK TSO: UNK CSO: UNK

PRATT & WHITNEY
COMPONENT MAINTENANCE MANUAL
PART NUMBER 4951680, 4952304, 4952375, AND 4952829

Fault	Possible Cause	Corrective Action
Servo Control Test Failure	Defective regulator (730) or servo valve (725)	Replace defective component.
	Regulator (730) is out of adjustment.	Adjust the regulator (730) and the setscrew (490) as required.
Low or High Pressure Valve Position Test Failure	Defective regulator (730) or servo valve (725)	Replace defective component.
	Regulator (730) is out of adjustment.	Adjust the regulator (730) and the setscrew (490) as required.
Excessive external leakage	Defective packings (090, 140, 265, 335, 375, 395, 400, 760)	Replace defective packings.
	Defective structural component	Replace defective component.
Position indicating switch operating points are not correct	Switch incorrectly adjusted	Adjust the switch assembly (600).
	Defective switch assembly or crank arm	Replace switch assembly (600) or crank arm (695).
Excessive minimum operating pressure	Defective diaphragm (040, 540)	Replace defective diaphragm.
	Excessive binding or friction between components	Replace defective component.
Excessive actuation time	Defective diaphragms (040, 540), bearings (415, 470, 690), spring (095), servo valve (725), or orifice (245)	Replace defective component.

Table 1008
Test Data Record

4951680/4952304/4952375/4952829/4956056 CALIBRATION SHEET	
DATE	10/14/21
TECHNICIAN	AR 



AEROSPACE SYSTEMS & COMPONENTS, INC.
5201 East 36th St, North • Wichita, KS 67220
Phone: (316)698-7392 Fax: (316)698-8542

BUTTERFLY VALVE ANALYSIS CODES

ASC Part Number: 1413-23
Cust Part Number: 4956056
Serial Number: 0120

Work Order: 123917
Date: 10/14/21
Tech: AR

Failure Analysis Codes (Summary Performance)

☐	101.	No Fault Found
☐	102.	Unable to Test
☐	103.	BF Disk Stuck Open
☐	104.	Will Not Go Full Open
☐	105.	Opens Without Current Applied
☐	106.	Fails Opening Time
☐	107.	BF Disk Stuck Closed
☐	108.	Will Not Travel Full Closed
☐	109.	Fails Closing Time
☐	110.	Will Not Operate With Current Applied
☐	111.	Excessive Binding During Operation
☐	112.	Switch Indication Failure
☐	113.	Damaged Assembly
☐	114.	Assembly Error
☒	115.	Other

Failure Analysis Codes (ATP)

☐	201.	Passed ATP
☐	202.	Unable to Test
☐	203.	Partial ATP Performed
☐	204.	No Switch Continuity
☐	205.	High Switch Resistance
☐	206.	Switch Out of Adjustment
☐	207.	Fails to Open
☐	208.	Fails Open Time
☐	209.	Fails to Go Full Open
☐	210.	Fails to Close
☐	211.	Fails Closing Time
☐	212.	Excessive Binding
☒	213.	High Internal Leakage
☐	214.	High External Leakage
☒	215.	Out of Calibration
☐	216.	Opens Without Current Applied
☐	217.	High Bonding Resistance
☐	218.	Fails Dielectric
☐	219.	Fails Minimum Opening Pressure
☐	220.	Other

Failure Analysis Codes (Component)

☐	301.	No Fault Found
☐	302.	Switch Failure/Damage
☐	303.	Switch Adjustment
☐	304.	Switch Cam Worn/Broken
☐	305.	Actuator Diaphragm Failure/Damage
☐	306.	Feedback Diaphragm Failure/Damage
☐	307.	Feedback Section Binding/Damaged
☐	308.	Ball Regulator Failure/Damage
☒	309.	Seal Ring Broken/Damaged
☐	310.	Disk Damaged
☐	311.	Ball Regulator O-Ring Broken/Damaged
☐	312.	Solenoid Short/Open Circuit
☐	313.	Spring(s) Broken/Damaged
☐	314.	Servo Leaking
☐	315.	Servo Out of Calibration
☐	316.	Customer Damage/Tampering
☐	317.	Assembly Damaged
☐	318.	Hardware Damaged
☐	319.	Assembly Error
☒	320.	Heavy Internal Contamination
☐	321.	Heavy External Contamination
☐	322.	Foreign Object Damage
☐	323.	Flow Body Damaged
☐	324.	Roll Pin Not Flush/Damaged
☐	325.	Key Position Out of Tolerance
☐	326.	Key Damaged
☐	327.	Inconel Pin Failure
☐	328.	Ring Has Rotated Out of Position
☐	329.	Failed/Rough Shaft Bearings
☐	330.	Failed/Rough Feedback Bearings
☐	331.	Internal Corrosion
☐	332.	External Corrosion
☐	333.	Other
☐		
☐		
☐		
☐		

Comments: _____



AEROSPACE SYSTEMS & COMPONENTS, INC.

5201 EAST 36TH ST. NORTH • WICHITA, KANSAS 67220 PHONE: (316) 686-7392

FAX: (316) 686-8542

4956056 STANDARD PARTS REPLACEMENT LIST

SEAL RING	4956056-5
NUT	MS21042L04
NUT	MS21042L06
NUT	MS21042L08
O-RING	MS9068-007
O-RING	MS9068-008
O-RING	MS9068-010
O-RING	MS9068-011
O-RING	MS9068-013
O-RING	MS9068-018
O-RING	MS9068-022
SEAL RETAINER	4952829-41
BEARING	4951090-60
FILTER	4952375-3
SAFETY CABLE	AS3510-01182
CRANK ARM ASSY	4956056-3
DECAL	4952829-36
REGULATOR ASSEMBLY	4952829-30
RETAINING RING	MS16624-5018
DISK	4956056-4

Amanda Chavez

Aftermarket Supervisor
Aerospace Systems and Components, Inc.
FAA Repair Station OI2R058L & EASA.145.4062
Direct Line: (316) 779-8437
AOG: (316) 500-3099
achavez@aplains.com

PRATT & WHITNEY
COMPONENT MAINTENANCE MANUAL
PART NUMBER 4951680, 4952304, 4952375, AND 4952829

Fault	Possible Cause	Corrective Action
Servo Control Test Failure	Defective regulator (730) or servo valve (725)	Replace defective component.
	Regulator (730) is out of adjustment.	Adjust the regulator (730) and the setscrew (490) as required.
Low or High Pressure Valve Position Test Failure	Defective regulator (730) or servo valve (725)	Replace defective component.
	Regulator (730) is out of adjustment.	Adjust the regulator (730) and the setscrew (490) as required.
Excessive external leakage	Defective packings (090, 140, 265, 335, 375, 395, 400, 760)	Replace defective packings.
	Defective structural component	Replace defective component.
Position indicating switch operating points are not correct	Switch incorrectly adjusted	Adjust the switch assembly (600).
	Defective switch assembly or crank arm	Replace switch assembly (600) or crank arm (695).
Excessive minimum operating pressure	Defective diaphragm (040, 540)	Replace defective diaphragm.
	Excessive binding or friction between components	Replace defective component.
Excessive actuation time	Defective diaphragms (040, 540), bearings (415, 470, 690), spring (095), servo valve (725), or orifice (245)	Replace defective component.

Table 1008
Test Data Record

4951680/4952304/4952375/4952829/4956056 CALIBRATION SHEET	
DATE	10/14/21
TECHNICIAN	AR 

PRATT & WHITNEY
COMPONENT MAINTENANCE MANUAL
PART NUMBER 4951680, 4952304, 4952375, AND 4952829

4951680/4952304/4952375/4952829/4956056 CALIBRATION SHEET						
PRECAL OR FINAL	50123917 5N0120 AC ASC 60					
SECTION	PARAMETER	MEASURED VALUE				LIMITS
1.G.(5)	Barometric Pressure	28.3				(REF.) In. Hg.
3.F.(5)	Internal Leakage (IL)	370/1.329				0.42 Lb/Min
3.G.(7)	External Leakage (IL)	351.079				0.2 Lb/Min
3.H.(3)	Min Operating Pressure	12				13 PSIG Max
3.H.(5)(a)	Continuity Pins 5-12	.4				5 Ohms Max
3.H.(5)(a)	Continuity Pins 7-13	.4				5 Ohms Max
3.H.(9)	Continuity Starts Pins 5-12	5				3°-7°
3.H.(9)	Continuity Starts Pins 7-13	6				3°-7°
3.I.(5)	Opening Time 13 PSI (89.6 Kpa)	2.14				4 Sec. Max
3.I.(7)	Closing Time 13 PSI (89.6 Kpa)	.78				3 Sec. Max
3.J.(5)	Opening Time 75 PSI (517 Kpa)	1.46				3 Sec. Max
3.J.(7)	Closing Time 75 PSI (517 Kpa)	.84				3 Sec. Max
	MILLI AMPS	(P3) ACT. PSI	(P4) SERVO PSI	(P5) REG. PSI	SHAFT ANGLE	LIMITS
3.K.(4)	14.4	5.3	1.9	12.6	1°	12-20 mA
3.K.(4)	29.6	6.8	4.6	12.4	30°	29-41 mA
3.K.(4)	55.4	8.4	8.2	12.5	60°	50-62 mA
3.K.(4)	73.4	9.9	11.1	12.7	85°	68-76 mA
3.K.(6)		N/A	N/A	N/A	Diff. 1° and 85°	47 mA Min
3.K.(8)	71.8	9.7	11.1	12.7	85°	67-74 mA
3.K.(8)	53.3	8	8.2	12.4	60°	46-58 mA
3.K.(8)	27.3	6.4	4.6	12.4	30°	26-38 mA

PRATT & WHITNEY
COMPONENT MAINTENANCE MANUAL
PART NUMBER 4951680, 4952304, 4952375, AND 4952829

4951680/4952304/4952375/4952829/4956056 CALIBRATION SHEET						
3.K.(8)	12.4	49	19	126	1°	9-15 mA
3.K.(9)	59	N/A	N/A	N/A	Diff. 1° and 85°	47 mA Min
3.K.(10)	2.3	N/A	N/A	N/A	Max Diff. 30° and 60°	5 mA Max
REFERENCE INFORMATION					MEASURED VALUE	
Actuator Spring Height at 29.3 Lbs (13.1 Kg)(Inch)					2.528	
Actuator Spring Height at 34.2 Lbs (15.5 Kg)(Inch)					2.334	
Actuator Spring Installed Height (Inch)					3.781	

and including any preventative maintenance or repair.

Signature or Stamp/Date
(277) 18 APRIL 08
(254) AUG 06 2008
(247) AUG 06 2009
(254) 20 JUN 2011

SECTION 3. MAINTENANCE AND REPAIR LOG

19

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry number <u>3</u> . This APU, serial number <u>SP-E0114217</u> , has been repaired in accordance with Hamilton Sundstrand Power System procedures and Work Order number <u>04083634</u> . Reference Section 4 for applicable SB / SBRSI / AD / incorporated. Reference Section 5 for Component/LRU change records.	(277) 18 APRIL 08
Entry number <u>4</u> . This APU, serial number <u>SP-E0114217</u> , has been repaired in accordance with Hamilton Sundstrand Power System procedures and Work Order number <u>04377847</u> . Reference Section 4 for applicable SB / SBRSI / AD / incorporated. Reference Section 5 for Component/LRU change records.	(254) AUG 06 2008
"The igniters, fuel filter and oil filter were replaced during this shop visit."	
Entry number <u>5</u> . This APU, serial number <u>SP-E0114217</u> , has been repaired in accordance with Hamilton Sundstrand Power System procedures and Work Order number <u>05088218</u> . Reference Section 4 for applicable SB / SBRSI / AD / incorporated. Reference Section 5 for Component/LRU change records.	(247) AUG 06 2009
Entry number <u>6</u> . This APU, serial number <u>SP-E0114217</u> , has been repaired in accordance with Hamilton Sundstrand Power System procedures and Work Order number <u>06390279</u> . Reference Section 4 for applicable SB / SBRSI / AD / incorporated. Reference Section 5 for Component/LRU change records.	(254) 20 JUN 2011

SECTION 3. MAINTENANCE AND REPAIR LOG

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Entry No.	Date	Time Since New		Since Rep/QVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
7	04 OCT 2012	19055.3	24894	0	0	LI3R658L	309 04 OCT 2012
8	04 Nov 2015	25401	32674	6,345.70	7780	—	04-Nov-2015
9	29/1/16						
10	5/2/16						
—	—						
—	—						
—	—						
—	—						
11	6/2/16	25483	32775	6427.70	7881		
12	17/2/16	25490	32789	6434.70	7845		
13	24/2/16	25498	32810	6442.70	7916		
14	2/3/16	25515	32832	6459.70	7938		
15	9/3/16	25534	32842	6478.70	7998		
16	16/3/16						

21

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Entry number 7. This APU, serial number SP-E0114217, has been repaired in accordance with Hamilton Sundstrand Power System procedures and Work Order number 07300595. Reference Section 4 for applicable SB / SBRSI / AD / incorporated. Reference Section 5 for Component/LRU change records.

04 OCT 2012

CHARLES TAYLOR TECH LOG S/N 10061. APU DOWNLOAD C6. HRS 2548.1. EVENTS 23769. Simon Morgan SR

W/O 004799. INTRO TO SERVICE OF A/C WITH EASTERN AIRWAYS AS G-CZSK

NRC 1041. OIL REPLACED WITH EXXON 2380. OIL FILTER REPLACED IAW AMM 49-91-0304. NRC 1046. THERMOCOUPLE HARNESS WITH MINOR DAMAGE TO HEAT SLEEVE, HEAT SLEEVE REPLACED. NRC 1048. AUTO SHUTDOWN FAULT CODE ON FADEC BV OVERSPEED, SPEED SENSOR REPLACED, P/N 450418SC OFF, P/SUOFF 119343, P/N ON 450418SD, S/N ON 0172199, BATCH NO 146739. Simon Morgan SR

W/O 004799, NRC 1004. APU DOWNLOAD C6. Simon Morgan SR

APU DOWNLOAD C6. SRP 169201, DRP 019152. Simon Morgan SR

APU DOWNLOAD C6. SRP 169203, DRP 019158. Simon Morgan SR

APU DOWNLOAD C6. SRP 169210, DRP 019166. Simon Morgan SR

APU DOWNLOAD C6. SRP 169217, DRP 019175. Simon Morgan SR

APU DOWNLOAD C6. HRS 3294.1, EVENTS 25548. SRP 169222, DRP 019206. Simon Morgan SR

SECTION 3. MAINTENANCE AND REPAIR LOG

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Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
17	25.3.16	25556.80	32968	6501.50	8074		
18	11/4/16	25563.00	32971	6507.70	8077		
19	11/4/16	25575.00	33003	6519.70	8109		
20	14/4/16	25587.00	33026	6531.70	8132		
21	20/4/16	25597.00	33050	6541.70	8156		
22	26/4/16	25608.00	33074	6552.70	8180		
23	3/5/16	25627.00	33109	6563.70	8215		
24	10/5/16	25647.00	33145	6571.70	8251		
25	17/5/16	25663.00	33181	6607.70	8287		
26	24/5/16	25685.00	33227	6629.70	8333		
27	31/5/16	25700.00	33255	6644.70	8361		
28	7/6/16	25725.00	33298	6669.70	8404		
29	14/6/16	25744.00	33333	6688.70	8439		
30	21/6/16		33365		8471		

C-1 HRS
 32 12.00
 C-4 HRS
 23 12.00
 C-5 HRS
 21 10.00
 C-1 HRS
 22 11.00
 24 4.5
 24.35 1.5
 C-136 HRS
 40
 C-136 16
 C-146 HRS
 27 1.5
 C-148 HRS
 28 1.5
 C-143 HRS
 29 1.5
 C-135 HRS
 19
 C-132 -

[illegible]

23

Detail or Work Performed		Technical Records	Ea 7
APU DOWNLOAD C/O. HRS 25556:80 CYC 32968 DRP 019214 SRP170402.			
APU Download C/O DRP 019218 PPH		Technical Records	Ea 7
APU Download C/O DRP 018227 PPH		Technical Records	Ea 7
APU Download C/O DRP 018233 PPH		Technical Records	Ea 7
APU Download C/O DRP 018240 PPH		Technical Records	Ea 7
APU Download C/O DRP 018248 PPH		Technical Records	Ea 7
APU Download C/O DRP 018458 PPH		Technical Records	Ea 7
APU Download C/O DRP 018465 PPH		Technical Records	Ea 7
APU Download C/O DRP 018473 PPH		Technical Records	Ea 7
APU Download C/O DRP 021930 PPH		Technical Records	Ea 7
APU Download C/O DRP 021939 PPH		Technical Records	Ea 7
APU Download C/O DRP 021946 PPH		Technical Records	Ea 7
APU Download C/O DRP 021954 PPH		Technical Records	Ea 7
APU Download C/O DRP 021961 PPH		Technical Records	Ea 7

12-29-88 (over)

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
31	22/6/16	25772 ⁰⁰	33378	6716.70	8484		
32	28/6/16	25798 ⁰⁰	33410	6734.70	8516		
33	5/7/16	25808 ⁰⁰	33445	6761.70	8551		
34	10/7/16	25821	33470	6765.70	8576		
35	16/7/16	25833	33499	6777.70	8605		
36	19/7/16	25840	33514	6784.70	8620		
37	23/7/16	25847	33531	6791.70	8637		
38	28/7/16	25865	33565	6809.70	8671		
39	31/8/16	25877	33592	6821.70	8698		
40	9/8/16	25892	33625	6836.70	8731		
41	17/08/16	25896	33637	6840.70	8743		
42	3/8/16	25926	33691	6870.70	8797		
43	02/09/16	25932	33707	6876.70	8813		
44	8/9/16	25941	33709	6885.70	8815		

25

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[illegible]

Detail or Work Performed		
APU Downloads CIO DEP 021963 PPH	Technical Records	Ea 7
APU Downloads CIO DEP 021969 PPH	Technical Records	Ea 7
APU Downloads CIO DEP 021978 PPH	Technical Records	Ea 7
APU Download CIO DEP 021984 PPH	Technical Records	Ea 7
APU Download CIO DEP 021991 PPH	Technical Records	Ea 7
APU Download CIO DEP 021994 PPH	Technical Records	Ea 7
APU Download CIO DEP 022774 Simon Muggen PPH	Technical Records	Ea 4
APU Downloads CIO DEP 022790 PPH	Technical Records	Ea 7
APU Downloads CIO DEP 022796 PPH	Technical Records	Ea 7
APU Download CIO DEP 017103 PPH	Technical Records	Ea 7
APU Download CIO DEP 07109 B. PPH	Technical Records	Ea 6
APU Downloads CIO DEP 023503 PPH	Technical Records	Ea 7
APU Download CIO DEP 023506 B. Simon Muggen	Technical Records	Ea 4
APU Download CIO DEP 023511 PPH	Technical Records	Ea 7

SECTION 3. MAINTENANCE AND REPAIR LOG

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Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
24 C4 H152	45	14.9.16	25943	33743	6887.70	8849	
C424 H12	46	20.9.16	25955	33767	6899.70	8873	
C41 H1511	47	21.9.16	25966	33768	6910.70	8874	
C473 H127	48	30.10.16	25993	33841	6937.70	8947	Technical Records Es 7
C421 H159	49	10.10.16	26002	33862	6946.70	8962	Technical Records Es 7
C417 H156	50	17.10.16	26008	33879	6952.70	8985	Technical Records Es 7
C467 H1527	51	31.10.16	26035	33946	6979.70	9052	
C436 H1510	52	7.11.16	26045	33982	6989.70	9088	
C424 H1515	53	11.11.16	26060	34006	7004.70	9112	
C424 H1510	54	17.11.16	26070	34030	7014.70	9136	
C448 H1521	55	24.11.16	26091	34078	7035.70	9184	
C426 H1514	56	30.11.16	26105	34104	7049.70	9210	
C428 H1512	57	6.12.16	26117	34132	7061.70	9238	
C424 H1518	58	13.12.16	26125	34156	7069.70	9262	

27

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[illegible]

Detail or Work Performed		Technical Records	Ea 7
APU Download C/O DEP 023517	PSST	Technical Records	Ea 7
APU Download C/O DEP 023524	PSST	Technical Records	Ea 7
APU Download C/O DEP 024258	PSST	Technical Records	Ea 7
APU Download C/O DEP 024265	PSST	Technical Records	Ea 7
APU Download C/O DEP 024275	PSST	Technical Records	Ea 7
APU Download C/O DEP 024210	PSST	Technical Records	Ea 7
APU Download C/O DEP 024224	PSST	Technical Records	Ea 7
APU Download C/O DEP 024183	PSST	Technical Records	Ea 7
APU Download C/O DEP 024190	PSST	Technical Records	Ea 7
APU Download C/O DEP 024195	PSST	Technical Records	Ea 7
APU Download C/O DEP 024102	PSST	Technical Records	Ea 7
APU Download C/O DEP 024109	PSST	Technical Records	Ea 7
APU Download C/O DEP 024116	PSST	Technical Records	Ea 7
APU Download C/O DEP 024123	PSST	Technical Records	Ea 7

SECTION 3. MAINTENANCE AND REPAIR LOG

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Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
C469 HFS 59	26/12/16	26143	34225	7058.70	9331		
C412 HFS 60	26/12/16	26156	34237	7100.70	9343		
C44 HFS 61	21/1/17	26160	34241	7104.70	9347		
C432 HFS 62	9/1/17	26175	34273	7119.70	9379		
C432 HFS 63	15/1/17	26175	34273	7119.70	9379		
C45 HFS 64	22/1/17	26178	34278	7122.70	9384		
C430 HFS 65	29/1/17	26193	34338	7138.70	9414		
C436 HFS 66	5/2/17	26215	34344	7159.70	9450		
C425 HFS 67	10/2/17	26226	34369	7170.70	9475		
22 8 68	17/2/17	26234	34391	7178.70	9497		
C423 HFS 69	24/2/17	26247	34414	7191.70	9520		
C423 HFS 70	2/3/17	26257	34437	7201.70	9543		
C437 HFS 71	9/3/17	26284	34474	7228.70	9580		

and including any preventative maintenance or repair.

Signature or Stamp/Date
(277) 18 APRIL 08
(254) AUG 06 2008
(247) AUG 06 2009
(254) 20 JUN 2011

SECTION 3. MAINTENANCE AND REPAIR LOG

19

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry number <u>3</u> . This APU, serial number <u>SP-E0114217</u> , has been repaired in accordance with Hamilton Sundstrand Power System procedures and Work Order number <u>04083634</u> . Reference Section 4 for applicable SB / SBRSI / AD / incorporated. Reference Section 5 for Component/LRU change records.	(277) 18 APRIL 08
Entry number <u>4</u> . This APU, serial number <u>SP-E0114217</u> , has been repaired in accordance with Hamilton Sundstrand Power System procedures and Work Order number <u>04377847</u> . Reference Section 4 for applicable SB / SBRSI / AD / incorporated. Reference Section 5 for Component/LRU change records.	(254) AUG 06 2008
"The igniters, fuel filter and oil filter were replaced during this shop visit."	
Entry number <u>5</u> . This APU, serial number <u>SP-E0114217</u> , has been repaired in accordance with Hamilton Sundstrand Power System procedures and Work Order number <u>05088218</u> . Reference Section 4 for applicable SB / SBRSI / AD / incorporated. Reference Section 5 for Component/LRU change records.	(247) AUG 06 2009
Entry number <u>6</u> . This APU, serial number <u>SP-E0114217</u> , has been repaired in accordance with Hamilton Sundstrand Power System procedures and Work Order number <u>06390279</u> . Reference Section 4 for applicable SB / SBRSI / AD / incorporated. Reference Section 5 for Component/LRU change records.	(254) 20 JUN 2011

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/QVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
7	04 OCT 2012	19055.3	24894	0	0	LI3R658L	309 04 OCT 2012
8	04 Nov 2015	25401	32674	6,345.70	7780	—	04-Nov-2015
9	29/1/16						
10	5/2/16						
—	—						
—	—						
—	—						
—	—						
11	6/2/16	25483	32775	6427.70	7881		
12	17/2/16	25490	32789	6434.70	7845		
13	24/2/16	25498	32810	6442.70	7916		
14	2/3/16	25515	32832	6459.70	7938		
15	9/3/16	25534	32842	6478.70	7998		
16	16/3/16						

31

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

[illegible]

Detail or Work Performed		Technical Records	Ea 7
APU Downloads Clo SEP 175592 DEP 026734	REDACTED	Technical Records	Ea 7
APU Downloads Clo SEP 175606 DEP 026750	REDACTED	Technical Records	Ea 7
APU Downloads Clo SEP 175628 DEP 28637	REDACTED	Technical Records	Ea 7
APU Downloads SEP 175632 DEP 28643	REDACTED	Technical Records	Ea 7
APU Downloads SEP 175635 DEP 31977	REDACTED	Technical Records	Ea 7
APU Downloads SEP 175635 DEP 31977	REDACTED	Technical Records	Ea 7
APU Downloads DEP 31992	REDACTED	Technical Records	Ea 7
APU Downloads DEP 31998	REDACTED	Technical Records	Ea 7
APU Downloads SEP 175646 DEP 32027	REDACTED	Technical Records	Ea 7
APU Downloads SEP 175650 DEP 32033	REDACTED	Technical Records	Ea 7
APU Downloads SEP 176130 DEP 32040	REDACTED	Technical Records	Ea 7
APU Downloads SEP 176136 DEP 31726	REDACTED	Technical Records	Ea 7
APU Downloads SEP 176140 DEP 31737	REDACTED	Technical Records	Ea 7

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
85	10/6/17	26426	34842	7370.70	9948		
86							
86	22/6/17						
	16/6/17	26433	34859	7377.70	9965		End-Rec Wip HISSING PS.
86	22/6/17	26442	34878	7386.70	9984		
87	27/6/17	26453	34894	7397.70	10000		
88	4/7/17	26469	34942	7413.70	10048		
89	11/7/17	26487	34994	7431.70	10100		
90	18/7/17	26499	35024	7443.70	10130		
91	23/7/17	26512	35051	7456.70	10157		
92	30/7/17	26526	35080	7470.70	10192		

33

UL and including any preventative and maintenance or repair.

[illegible]

Detail or Work Performed			
WIP 009045	SEP 176140	DEP 31726	Includes Repair work of FANEC BDE Display, DVI of APU 1 Igniter plug, Desoldered APU oil supply, Repl/ Discard APU oil filter, Clo Repl of APS SCOR Inlet Fuel Filter LAM, Repl ☐ ☒ NRC011 Tailcone/Exhaust Removed/Reft, APU Bleed Valve Repl + Reft NRC012 APU Bonding LEAD WEAR - Repl. Repl ☐ ☒
SEP 176143	DEP 31742	16/6/17	Repl ☐ ☒
SEP 176146	DEP 31747	22/6/17	Repl ☐ ☒
SEP 176149	DEP 024304	27/6/17	Repl ☐ ☒
SEP 173806	DEP 024311	4/7/17	Repl ☐ ☒
SEP 173813	DEP 024321	11/7/17	Repl ☐ ☒
SEP 173818	DEP 31677	18/5/17	Repl ☐ ☒
SEP 173821	DEP 31684	23/7/17	Repl ☐ ☒
SEP 169877	DEP 31693	30/7/17	Repl ☐ ☒

12-29-99-cw

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
Hrs 13 Cy 23	93 4/8/17	26539	35109	7483.70	10215		
Hrs 7 Cy 22	94 13/8/17	26546	35131	7490.70	10238		
Hrs 8 Cy 19	95 20/8/17	26554	35150	7498.70	10256		
Hrs 21 Cy 39	96 27/8/17	26575	35189	7519.70	10295		
Hrs 14 Cy 31	97 31/9/17	26589	35220	7533.70	10326		
Hrs 13 Cy 32	98 9/9/17	26602	35253	7546.70	10359		
Hrs 16 Cy 38	99 14/9/17	26618	35288	7562.70	10394		
Hrs 8 Cy 20	100 20/9/17	26626	35308	7570.70	10414		
15	101 25/9/17	26641	35334	7585.70	10440		
Hrs 11 Cy 28	101 29/9/17	26652	35362	7596.70	10468		
Hrs 20 Cy 37	102 7/10/17	26672	35399	7616.70	10505		
Hrs 17 Cy 32	103 13/10/17	26689	35431	7633.70	10537		
Hrs 14 Cy 14	104 18/10/17	26703	35445	7647.70	10551		
Hrs 11 Cy 26	105 24/10/17	26714	35471	7658.70	10577		

35

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

[illegible]

Detail or Work Performed				Reviewed	By
SRP 169880	DRP 31651	6/8/17	SRP	☒	DM
SRP 169883	DRP 31660	13/8/17	SRP	☒	DM
SRP 169887	DRP 31667	20/8/17	SRP	☒	DM
SRP 169893	DRP 31673	27/8/17	SRP	☒	DM
SRP 169899	DRP 034956	3/9/17	SRP	☒	DM
SRP 176104	DRP 034962	9/9/17	SRP	☒	DM
SRP 176109	DRP 034969	14/9/17	SRP	☒	DM
SRP 176112	DRP 034975	20/9/17	SRP	☒	DM
SRP 176117, DRP 035031, 25/9/17 Simon Morgan FL				Reviewed	By
SRP 176121	DRP 035038	29/9/17	SRP	☒	DM
SRP 182352	DRP 035045	7/10/17	SRP	☒	DM
SRP 182357	DRP 035050	13/10/17	SRP	☒	DM
SRP 182361	DRP 040356	18/10/17	SRP	☒	DM
SRP 182368	DRP 040365	24/10/17	SRP	☒	DM

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
H151 C436	106 29/10/17	26729	35507	7603.70	10603		
H157 C422	107 21/11/17	26736	35529	7680.70	10635		
H158 C423	108 12/11/17	26751	35566	7695.70	10672		
	109 12/11/17	26751	35566	7695.70	10672		
H159 C423	110 16/11/17	26760	35589	7704.70	10695		
H1514 C433	111 23/11/17	26774	35622	7718.70	10728		
H1511 C418	112 28/11/17	26785	35640	7729.70	10746	35640 7729.70	
H155 C420	113 4/12/17	26790	35667	7734.70	10773		
H1513 C424	114 8/12/17	26803	35691	7747.70	10797		
H1515 C429	115 14/12/17	26818	35720	7762.70	10826		
H153 C412	116 17/12/17	26827	35732	7777.70	10838		
H15 C 6	117 28/12/17	26826	35738	7770.70	10844		
H14 C 19	118 08/01/2018	26840	35757	7784.70	10863		

37

Detail or Work Performed

[illegible]

Detail or Work Performed			
Srp 182370	DRP 040373	29/11/17	DRP
Srp 182373	DRP 040375	21/11/17	DRP
Srp 184881	DRP 038057	12/11/17	DRP
WIP 010595 PCX Performance Chx FADEC Bite Display for fault message Srp 184881 DRP 038057 DRP 12/11/17			
Srp 184884	DRP 038060	16/11/17	DRP
DRP 038070	23/11/17	DRP	
Srp 184892	DRP 038075	28/11/17	DRP
Srp 184895	DRP 038105	4/12/17	DRP
Srp 184900	DRP 038114	8/12/17	DRP
Srp 184929	DRP 038118	14/12/17	DRP
Srp 184931	DRP 038121	17/12/17	DRP
Srp 184931, DRP 038124	28/12/17	Simon Magn J	Technical Records En 4
Srp 184934	DRP 040828	16	Technical Records En 3

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
Hrs 6 cy 11	119	10/01/18	26846	35768	7790.70	10874	
Hrs 2 cy 44	120	15/1/18	26848	35772	7792.70	10878	
Hrs 6 cy 13	121	20/1/18	26854	35785	7798.70	10891	
Hrs 7 cy 20	122	25/1/18	26861	35805	7805.70	10911	
Hrs 13 cy 26	123	1/2/18	26874	35831	7818.70	10937	
Hrs 15 cy 22	124	8/2/18	26889	35863	7833.70	10969	
Hrs 12 cy 35	125	15/2/18	26901	35893	7845.70	10999	
Hrs 10 cy 26	126	22/2/18	26911	35919	7855.70	11025	
14 33	127	9/3/18	26925	35952	7869.70	11058	
Hrs 15 cy 27	128	6/3/18	26940	35979	7884.70	11085	
Hrs 11 cy 21	129	13/3/18	26951	36006	7895.70	11112	
Hrs 18 cy 38	130	20/3/18	26969	36044	7913.70	11150	
Hrs 20 cy 30	131	27/3/18	26984	36074	7925.70	11180	
Hrs 4 cy 21	132	1/4/18	26985	36095	7929.70	11201	

39

HAUL and including any preventative scheduled maintenance or repair.

[illegible]

Detail or Work Performed			
SER 184936	DRP 040835	10/01/18	RECEIVED
SER 184937	DRP 040840	15/01/18	RECEIVED
SER 184939	DRP 040844	20/1/18	RECEIVED
SER 184943	DRP 040848	25/1/18	RECEIVED
SER 184947	DRP 038132	1/2/18	RECEIVED
SER 184952	DRP 038142	8/2/18	RECEIVED
SER 184956	DRP 038149	15/2/18	RECEIVED
SER 184960	DRP 042407	22/2/18	RECEIVED
SER 184964	DRP 042415	01/03/18	Simon, M. J.
SER 184968	DRP 042419	6/3/18	RECEIVED
SER 184972	DRP 042425	13/3/18	RECEIVED
SER 187778	DRP 040383	20/3/18	RECEIVED
SER 187782	DRP 040388	27/3/18	RECEIVED
SER 187786	DRP 040398	1/4/18	RECEIVED

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
H/S 7 C413	133 3/4/18	26992	36108	7936.70	11214		
	134 8/4/18						
	135 10/4/18	27004	36136	7948.70	11242		
H/S 12 C428	136 17/4/18	27016	36175	7960.70	11281		
H/S 12 C431	137 28/4/18	27023	36191	7967.70	11297		
H/S 7 C416	138 3/5/18	27033	36214	7977.70	11320		
H/S 10 C423	139 8/5/18	27046	36235	7990.70	11341		
H/S 12 C421	140 13/5/18	27055	36251	7999.70	11357		
H/S 9 C416	141 20/5/18	27065	36277	8009.70	11383		
H/S 10 C428	142 26/5/18	27076	36302	8020.70	11408		
H/S 11 C425	143 31/5/18	27090	36324	8034.70	11430		
H/S 14 C42	144 7/6/18	27096	36347	8040.70	11453		
H/S 6 C423	145 14/6/18	27108	36377	8052.70	11483		

41

and including any preventative and maintenance or repair.

[illegible]

Detail or Work Performed		Technician	Ed
SRP 187787 DRP 040400	3/4/18 SSS	Technician	Ed 1
WLP 011729 Clo SRP 187789 DRP 037576	Perform a check FAREC		
Bite Display, SSS		Technician	Ed 1
SRP 187792 DRP 037578	SSS	Technician	Ed 1
SRP 187799 DRP 037584	SSS	Technician	Ed 1
SRP 187876 DRP 037591	SSS	Technician	Ed 1
SRP 187879 DRP 037598	SSS	Technician	Ed 1
SRP 187883 DRP 026329	SSS	Technician	Ed 1
SRP 187884 DRP 026333	SSS	Technician	Ed 1
SRP 187889 DRP 026340	SSS	Technician	Ed 1
SRP 187893 DRP 026346	SSS	Technician	Ed 1
SRP 187897 DRP 033803	SSS	Technician	Ed 1
SRP 187892 DRP 033808	SSS	Technician	Ed 1
SRP 187857 DRP 033815	SimmMagen SSS	Technician	Ed 4

HAUL, and including any preventative scheduled maintenance or repair.

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

43

[illegible]

Detail or Work Performed		Technical Records	ES
WO 012140 C10, 4YCPD 0.25Y CORROSION, INCLUDING APU DOWNLOAD, APU TEMP HIGH DURING ENGINE STARTS - REPLACE THE AIR/OIL COOLER OIL FILTER, REMOVE IGNITERS, INSPECT IGNITER PLUGS, INSTALL IGNITERS, CHECK FOR APU SEVICING, START APU, CHECK IF APU IS WITHIN OPERATIONAL LIMITS AND SHUTDOWN, AFTER PERFORM APU OPERATION IN LIMITS BUT DURING ENGINE STARTS APU EGT IN YELLOW (690°) - START APU CHECK IF APU IS WITHIN OPERATIONAL LIMITS AND SHUTDOWN - NO FAULT FOUND		Technical Records	ES 6
APU HOURS & CYCLES DOWNLOAD C10 SRP 187861, DRP 04690		Technical Records	ES 6
APU HOURS & CYCLES DOWNLOAD C10 SRP 187864, DRP 04690		Technical Records	ES 6
APU HOURS & CYCLES DOWNLOAD C10 SRP 187865, DRP 04692		Technical Records	ES 6
APU HOURS & CYCLES DOWNLOAD C10 SRP 187866, DRP 046916		Technical Records	ES 6
APU HOURS & CYCLES DOWNLOAD C10 SRP 187869, DRP 046924		Technical Records	ES 6
APU HOURS & CYCLES DOWNLOAD C10 SRP 187869, DRP 047004		Technical Records	ES 6
APU HOURS & CYCLES DOWNLOAD C10 SRP 187874, DRP 047010		Technical Records	ES 6

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
H12 C27 154	29.08.18	27181	36535	8125.7	11641		
H14 C32 155	04.09.18	27195	36567	8139.7	11643		
H16 C17 156	13.09.18	27201	36584	8145.7	11690		
157	17.09.18	27201	36584	8145.7	11690		
H15 C12 158	18.09.18	27206	36596	8150.7	11702		
H12 C14 159	24.09.18	27218	36615	8162.7	11721		
H17 C16 160	28.09.18	27225	36631	8169.7	11737		
H13 C29 161	04.10.18	27238	36660	8182.7	11766		
162	10.10.18	27254	36686	8198.7	11792		
163	16.10.18	27271	36728	8215.7	11834		
164	19.10.18	27277	36740	8221.7	11846		
165	23.10.18	27286	36761	8230.7	11867		
H12 C21 166	29.10.18	27299	36789	8243.7	11895		

45

IL and including any preventative
ed maintenance or repair.

[illegible]

Detail or Work Performed		Technical	Ea 6	Records
APU HOURS & CYCLES DOWNLOAD C/O SRP 190178, DRP 047015		Technical	Ea 6	Records
APU HOURS + CYCLES DOWNLOAD C/O SRP 190182, DRP 047022		Technical	Ea 6	Records
APU HOURS + CYCLES DOWNLOAD C/O SRP 190184, DRP 047025		Technical	Ea 6	Records
WO 013166 IAL 2A CHECK C/O INCLUDING CHECK OF THE FADEC RTE DISPLAY FOR FAULT MESSAGES		Technical	Ea 6	Records
APU HOURS & CYCLES DOWNLOAD C/O SRP 190186, DRP 047504		Technical	Ea 6	Records
APU HOURS + CYCLES DOWNLOAD C/O SRP 190189, DRP 047509		Technical	Ea 6	Records
APU HOURS + CYCLES DOWNLOAD C/O SRP 190191, DRP 047512		Technical	Ea 6	Records
APU HOURS + CYCLES DOWNLOAD C/O SRP 190195, DRP 047520		Technical	Ea 6	Records
APU HOURS + CYCLES DOWNLOAD C/O SRP 190199, DRP 047523		Technical	Ea 6	Records
APU HOURS + CYCLES DOWNLOAD C/O SRP 192030, DRP 042454		Technical	Ea 6	Records
APU HOURS + CYCLES DOWNLOAD C/O SRP 192032, DRP 042454		Technical	Ea 6	Records
APU HOURS + CYCLES DOWNLOAD C/O SRP 192035, DRP 042463		Technical	Ea 6	Records
APU HOURS + CYCLES DOWNLOAD C/O SRP 192039, DRP 042469		Technical	Ea 6	Records

12-20-99-cv

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
167	05.11.18	27311	36845	8255.7	11951		
168	12.11.18	27323	36919	8267.7	12025		
169	19.11.18	27337	36992	8281.7	12098		
170	26.11.18	27353	37052	8297.7	12158		
171	03.12.18	27373	37120	8317.7	12226		
172	10.12.18	27385	37191	8329.7	12297		
173	17.12.18	27401	37264	8345.7	12370		
174	24.12.18	27415	37329	8359.7	12435		
175	31.12.18	27429	37372	8373.7	12478		
176	07.01.19	27436	37415	8380.7	12521		
177	14.01.19	27438	37427	8382.7	12533		
178	15.01.19	27438	37427	8382.7	12533		
179	18.01.19	27451	37449	8395.7	12555		
180	25.01.19	27471	37493	8415.7	12599		

SECTION 3. MAINTENANCE AND REPAIR LOG

47

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

and including any preventative maintenance or repair.

Signature or Stamp/Date

Detail or Work Performed

APU HOURS + CYCLES DOWNLOAD C/O SRP 192047, DRP 048503	Technical Ea 6	CK
APU HOURS + CYCLES DOWNLOAD C/O SRP 193082, DRP 048508	Technical Ea 6	CK
APU HOURS + CYCLES DOWNLOAD C/O SRP 193091, DRP 048515	Technical Ea 6	CK
APU HOURS + CYCLES DOWNLOAD C/O SRP 193100, DRP 048522. Simon M...	Technical Ea 6	CK
APU HOURS & CYCLES DOWNLOAD C/O SRP 193109, DRP 049005	Technical Ea 6	CK
APU HOURS & CYCLES DOWNLOAD C/O SRP 193119, DRP 049016	Technical Ea 6	CK
APU HOURS & CYCLES DOWNLOAD C/O SRP 183803, DRP 049023	Technical Ea 6	CK
APU HOURS + CYCLES DOWNLOAD C/O SRP 183811, DRP 047478	Technical Ea 6	CK
APU HOURS & CYCLES DOWNLOAD C/O SRP 183816, DRP 047480	Technical Ea 6	CK
APU HOURS & CYCLES DOWNLOAD C/O SRP 183821, DRP 047494	Technical Ea 6	CK
APU HOURS & CYCLES DOWNLOAD C/O SRP 185822, DRP 050052	Technical Ea 6	CK
APU FADEC BITE DISPLAY CHECK FOR FAULT MESSAGES W/O 015272	Technical Ea 6	CK
APU HOURS + CYCLES DOWNLOAD C/O SRP 186001, DRP 050059	Technical Ea 6	CK
APU HOURS & CYCLES DOWNLOAD C/O SRP 186007, DRP 050069	Technical Ea 6	CK

HBPB
12-29-09-001

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
181	31.01.19	27482	37554	8426.7	12660		
182	03.02.19	27482	37554	8426.7	12660		
183	07.02.19	27486	37568	8430.7	12674		
184	14.02.19	27511	37626	8455.7	12732		
185	21.02.19	27541	37690	8485.7	12796		
186	28.02.19	27541	37690	8485.7	12796		
187	06.03.19	27557	37723	8501.70	12829		
188	13.03.19	27593	37786	8537.70	12892		
189	24.03.19	27609	37809	8553.70	12915		
190	31.03.19	27626	37880	8570.70	12986		
191	07.04.19	27640	37952	8584.70	13058		
192	14.04.19	27655	38031	8599.70	13137		

49

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

[illegible]

Detail or Work Performed		Technical Records	Es 6	Signature
APU Hours & Cycles Download C/O SRP 186014, DRP 048526		Technical Records	Es 6	KH S
LINE V/O 016327 C/O INCLUDING DRAIN AND REPLACE APU OIL SUPPLY, REPLACE DISCARD APU OIL FILTER ELEMENT, REPLACEMENT OF APS SMOOR INLET FUEL FILTER		Technical Records	Es 6	KH S
APU Hours & Cycles Download C/O SRP 186015, DRP 048536		Technical Records	Es 6	KH S
APU Hours + Cycles Download C/O SRP 186024, DRP 048545		Technical Records	Es 6	KH S
APU Hours & Cycles Download C/O SRP 192658, DRP 052799		Technical Records	Es 6	KH S
APU Hours + Cycles Download C/O SRP 192671, DRP 052552		Technical Records	Es 6	KH S
APU Hours + Cycles Download C/O SRP 192671, DRP 052552		Technical Records	Es 6	KH S
APU Hours + Cycles Download C/O SRP 191933, DRP 052563		Technical Records	Es 6	Simon Morgan
APU Hours + Cycles Download C/O SRP 191935, DRP 052572		Technical Records	Es 6	Simon Morgan
APU Hours + Cycles Download C/O SRP 191945, DRP 050910		Technical Records	Es 6	Simon Morgan
APU Hours + Cycles Download C/O SRP 194104, DRP 050919		Technical Records	Es 6	Simon Morgan
APU Hours + Cycles Download C/O SRP 194113, DRP 049530		Technical Records	Es 6	Simon Morgan

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

maintenance specified by the manufacturer at intervals of 250 hours or 250 cycles, whichever comes first.							
Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
193	21/04/19	27671	38106	8615.70	13212		
194	28/04/19	27683	38172	8621.70	13278		
195	02/05/19	27686	38189	8630.70	13278		
196	02/05/19	27686	38189	8630.70	13295		
/	/	/	/	/	/		
197	02/05/19	27686	38189	8630.70	13295		
/	/	/	/	/	/		
198	09/05/19	27706	38260	8650.70	13366		
199	16/05/19	27718	38328	8662.70	13434		
200	23/05/19	27731	38391	8675.70	13497		
201	30/05/19	27742	38456	8686.70	13562		
202	08/06/19	27747 27756	38470	8691.70	13576		
203	15/06/19	27756	38514	8700.70	13620		
204	22/06/19	27786	38659	8730.70	13765		

SECTION 3. MAINTENANCE AND REPAIR LOG

51

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

ding any preventative
ance or repair.

Signature or
Stamp/Date

Detail or Work Performed	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 194124, DRP 049540. Simon Morgan J	Technical Records Es 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 191982, DRP 049548. Simon Morgan J	Technical Records Es 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 191988, DRP 054176. Simon Morgan J	Technical Records Es 4
W/O 016221 A CHECK C/O. CHECK FADEC RTE DISPLAY FOR FAULT MESSAGES C/O JAW AMM	
44-64-03-700-801-A. Simon Morgan J	Technical Records Es 4
W/O 016221, NRC 0001. DIMM TEMP FAULT ON FADEC, DIMM REPLACED, P/N OFF 4505576, S/N OFF	
1005, P/N ON 4505576A, S/N ON 2643, BATCH NO 174103. Simon Morgan J	Technical Records Es 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 191993, DRP 054185. Simon Morgan J	Technical Records Es 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 192326, DRP 054193. Simon Morgan J	Technical Records Es 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 192334, DRP 043378. Simon Morgan J	Technical Records Es 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 192343, DRP 043390. Simon Morgan J	Technical Records Es 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 192345, DRP 043398. Simon Morgan J	Technical Records Es 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 192350, DRP 049833. Simon Morgan J	Technical Records Es 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195344, DRP 054680. Simon Morgan J	Technical Records Es 4

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SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
205	06/07/2019	27800	38723	8744.70	13829		
206	14/07/2019	27819	38786	8763.70	13892		
207	18/07/2019	27822	38796	8766.70	13902		
208	25/07/2019	27837	38827	8781.70	13933		
209	01/08/2019	27837	38828	8781.70	13934		
210	09/08/2019	27839	38834	8783.70	13940		
211	11/08/2019	27839	38834	8783.70	13940		
-	-	-	-	-	-		
-	-	-	-	-	-		
212	16/08/2019	27855	38884	8799.70	13990		
213	23/08/2019	27864	38930	8808.70	14036		
214	30/08/2019	27873	38976	8817.70	14082		
215	06/09/2019	27886	39043	8830.70	14149		
216	13/09/2019	27897	39106	8841.70	14212		

SECTION 3. MAINTENANCE AND REPAIR LOG

53

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

d including any preventative maintenance or repair.

Signature or Stamp/Date

Detail or Work Performed		Technician	Es
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195353, DRP 054691. Simon Morgan J	Records	Es 4	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195360, DRP 051178. Simon Morgan J	Records	Es 4	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195361, DRP 051186. Simon Morgan J	Records	Es 4	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195369, DRP 051197. Simon Morgan J	Records	Es 4	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195375, DRP 052408. Simon Morgan J	Records	Es 4	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195405, DRP 052415. Simon Morgan J	Records	Es 4	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 00 J			
W/O 018144 A CHECK C/O. FADEC BITE DISPLAY CHECKED FOR FAULT MESSAGES JAW AMM 49-04-03-700-801-A.			
Simon Morgan J	Records	Es 4	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195411, DRP 052421. Simon Morgan J	Records	Es 4	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195417, DRP 052805. Simon Morgan J	Records	Es 4	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195423, DRP 052813. Simon Morgan J	Records	Es 4	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195431, DRP 052821. Simon Morgan J	Records	Es 4	
APU HOURS + CYCLES DOWNLOAD C/O. SRP 195439, DRP 052931. Simon Morgan J	Records	Es 4	

SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

Entry No.	Date	Time Since New		Since Rep/OVH		Repair Station/ Certificate Number	Signature or Stamp/Date
		Hours	Cycles	Hours	Cycles		
217	20/09/2019	27910	39163	8854.70	14269		
218	21/09/2019	27925	39235	8869.70	14341		
219	04/10/2019	27932	39303	8876.70	14409		
220	20/10/2019	27973	39415	8917.70	14521		
221	20/10/2019	27973	39415	8917.70	14521		
22	/	/	/	/	/		
222	27/10/2019	27997	39458	8941.70	14564		
223	03/11/2019	28021	39503	8965.70	14609		
224	04/12/2019	28023	39505	8967.70	14611		
/	/	/	/	/	/		
225	11/12/2019	28052	39597	8996.70	14703		
226	18/12/2019	28069	39669	9013.70	14775		
227	25/12/2019	28081	39720	9025.70	14826		
228	31/12/2019	28091	39757	9035.70	14863		

SECTION 3. MAINTENANCE AND REPAIR LOG

55

Use this section for Certification of all maintenance related to installation. REMOVAL, MODIFICATION, REPAIR, OVERHAUL and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair.

including any preventative maintenance or repair.

Signature or Stamp/Date

Detail or Work Performed

APU HOURS + CYCLES DOWNLOAD C/O. SRP 195447, DRP 052944. Simon Mogen <i>SM</i>	Technician Records	Est 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 194655, DRP 052928. Simon Mogen <i>SM</i>	Technician Records	Est 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 194655, DRP 052938. Simon Mogen <i>SM</i>	Technician Records	Est 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 194727, DRP 053780. Simon Mogen <i>SM</i>	Technician Records	Est 4
APU FAIL TO START, 2x IGNITOR PLUGS REPLACED, P/W ON 4952382. SRP 194727, DRP 053780. Simon Mogen <i>SM</i>	Technician Records	Est 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 194713, DRP 053740. Simon Mogen <i>SM</i>	Technician Records	Est 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 194721, DRP 053327. Simon Mogen <i>SM</i>	Technician Records	Est 4
W/O 018290 C/CHECK C/O BY O/GMA. APU HOURS + CYCLES DOWNLOAD C/O. OIL DRAINED + REPLACED		
IAW AMM 49-96-00-600-801-A. Simon Mogen <i>SM</i>	Technician Records	Est 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 194606, DRP 053343. Simon Mogen <i>SM</i>	Technician Records	Est 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 194615, DRP 055327. Simon Mogen <i>SM</i>	Technician Records	Est 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 194622, DRP 055335. Simon Mogen <i>SM</i>	Technician Records	Est 4
APU HOURS + CYCLES DOWNLOAD C/O. SRP 194577, DRP 055342. Simon Mogen <i>SM</i>	Technician Records	Est 4

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SECTION 3. MAINTENANCE AND REPAIR LOG

Use this section for Certification of all maintenance related to INSTALLATION, REMOVAL, MODIFICATION, REPAIR, OVERHAUL, and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair

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Use this section for Certification of all maintenance related to **INSTALLATION, REMOVAL, MODIFICATION, REPAIR, OVERHAUL** and including any preventative maintenance specified by the manufacturer in order for the APU to qualify for the maximum time between scheduled maintenance or repair

Signature or Stamp / Date

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Abstract

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

10

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Records

Technical Editor
Reviews

Technical Editor

Records

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57

SB/MB/EB/SIL/AD Number	Mod Letter	Description	Hours	Cycles	Repair Station/ Certificate Number	Signature or Stamp/Date
Hamilton Sundstrand		Service Bulletin Inc.				
Page: 1		Repair Wo: 02123460				
Date: 07/28/2004		Pn: 4504113				
Form: Ssb 7/12/2004		Sn: SP-E0114217				
<u>Service Bulletin</u>	<u>Date</u>	<u>Mod</u>	<u>Station</u>	<u>Userid</u>		
4504112-49-8	05/29/2004	8	LI3R658L	AMMQARC		
INTRODUCTION OF QUILL SHAFT PN 4504407A						
4504112-49-11	05/29/2004	N/A	LI3R658L	AMMQARC		
MODIFICATION TO P/N M4504113A						
4504112-49-19	05/29/2004	19	LI3R658L	AMMQARC		
IMPROVED SERVO CONTROLLED BLEED AIR VALVE (4952375						
4504112-49-23	05/29/2004	23	LI3R658L	AMMQARC		
INTRO. OF MODIFIED DUPLEX FUEL NOZZLES						
4504112-49-24	05/29/2004	24	LI3R658L	AMMQARC		
MOD. PLATE WITH ADDITIONAL IDENTIFIERS						
4504112-49-26	05/29/2004	N/A	LI3R658L	AMMQARC		
INSPECTION OF FUEL NOZZLES						
			12374	15341	LI3R658L	(212) 18 APRIL 08
			S/O#	Description		Part Number
				4127913AI HOUSING WITH ROUNDED BOSSES		-SB 4504112-49-21
				4127913ADD SHIMS, COLD START BYPASS V		-SB 4504112-49-27
				4127913IMPROVED COMBUSTOR HOUSING		-SB 4504112-49-29
				4127913AI HSG W/ IMPROVED SHROUD COAT		-SB 4504112-49-30
			S/O#	Description		S/Bs Incorporated
				4555182INSP OF AIR INLET DUCT SHIMS		-SB 4504112-49-35
				OIL PUMP SHIELD		-SB 4504112-49-36
SERVICE BULLETINS PERFORMED THIS SHOP VISIT						
			S/O#	Description		S/Bs Incorporated
				5083964FUEL FILTER ASSY REPLACEMENT		-SB ASB-4504112-49-22
HSP8						
			S/O#	Description		S/Bs Incorporated
				5439971FCU UPGRADE TO 4504616B		-SB 4504616-49-2

SECTION 4. BULLETINS AND MODIFICATION RECORDS

Use of this section to record all Service Bulletins (SB), Modification Bulletins (MB), Evaluation Bulletins (EB), Service Information Letters (SIL) and Airworthiness Directives (AD) incorporated

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SECTION FIVE

Component Change Record

SECTION 5. COMPONENT CHANGE RECORD

63

Use this section to record Removal and Installation of APU
Components/LRU's (Line Replaceable Units)/SRU (Service Replaceable Units)

Component/ LRU/SRU	Removed Part Number	Removed Serial Number	Removed Hours	Removed Cycles	Installed Part Number	Installed Serial Number	Installed Hours	Installed Cycles	Signature or Stamp/Date
FUEL SOLENOID (MAIN)	NEW	NEW	NEW	NEW	161797-2	9295	1.27	3	287 12-Dec-01
HOT SWITCH	NEW	NEW	NEW	NEW	179045-1	179415	1.27	3	12-Dec-01
THRUST BEARING	NEW	NEW	NEW	NEW	4502042	0949	1.27	3	12-Dec-01
FUEL PUMP	NEW	NEW	NEW	NEW	4503140D	2382	1.27	3	12-Dec-01
GEAR ASSEMBLY	NEW	NEW	NEW	NEW	4503716A	V77-C167	1.27	3	12-Dec-01
TURBINE ASSEMBLY	NEW	NEW	NEW	NEW	4504115A	V77-C287	1.27	3	12-Dec-01
AIR INLET HOUSING	NEW	NEW	NEW	NEW	4504117	V77-C287	1.27	3	12-Dec-01
SPEED SENSOR	NEW	NEW	NEW	NEW	4504185A	0112271	1.27	3	12-Dec-01
TEMP/PRESS SENSOR	NEW	NEW	NEW	NEW	4504196A	0110226	1.27	3	12-Dec-01
ELECTRICAL HARNESS	NEW	NEW	NEW	NEW	4504230A	V14-S257	1.27	3	12-Dec-01
GEARBOX ASSEMBLY	NEW	NEW	NEW	NEW	4504235B	V99-D227	1.27	3	12-Dec-01
OIL PUMP GEAR	NEW	NEW	NEW	NEW	4504241	V73-C243	1.27	3	12-Dec-01
IMPELLER ASSEMBLY	NEW	NEW	NEW	NEW	4504253	V42-C2570	1.27	3	12-Dec-01
ROTOR ASSEMBLY	NEW	NEW	NEW	NEW	4504257A	V42-C2570	1.27	3	287 12-Dec-01

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SECTION 5. COMPONENT CHANGE RECORD

Use this section to record Removal and Installation of APU
Components/LRU's (Line Replaceable Units)/SRU (Service Replaceable Units)

Component/ LRU/SRU	Removed Part Number	Removed Serial Number	Removed Hours	Removed Cycles	Installed Part Number	Installed Serial Number	Installed Hours	Installed Cycles	Signature or Stamp/Date
INTERMEDIATE GEAR (IDLER)	NEW	NEW	NEW	NEW	4504313	V46-D0241	1.27	3	287 12-Dec-01
RING GEAR	NEW	NEW	NEW	NEW	4504328	V47-D0240	1.27	3	12-Dec-01
GEARBOX HOUSING	NEW	NEW	NEW	NEW	4504360B	V99-D227	1.27	3	12-Dec-01
COMBUSTOR ASSEMBLY	NEW	NEW	NEW	NEW	4504374A	L01-027	1.27	3	12-Dec-01
COMBUSTOR LINER	NEW	NEW	NEW	NEW	4504383A	L01-033	1.27	3	12-Dec-01
QUILL SHAFT	NEW	NEW	NEW	NEW	4504407	V04-D0174	1.27	3	12-Dec-01
FUEL CONTROL ASSEMBLY	NEW	NEW	NEW	NEW	4504616A	11-01-208	1.27	3	12-Dec-01
CONTAINMENT RING	NEW	NEW	NEW	NEW	4504652	V16-D0251	1.27	3	12-Dec-01
AIR INLET DUCT	NEW	NEW	NEW	NEW	4504716	V73-M5315	1.27	3	12-Dec-01
TURBINE WHEEL	NEW	NEW	NEW	NEW	4504847	V15-H157A	1.27	3	12-Dec-01
COMBUSTOR HOUSING	NEW	NEW	NEW	NEW	4505387A	L01-027	1.27	3	12-Dec-01
OUTPUT SHAFT	NEW	NEW	NEW	NEW	4505403	V03-C316	1.27	3	12-Dec-01
TURBINE NOZZLE	NEW	NEW	NEW	NEW	4505479	V72-D144	1.27	3	12-Dec-01
DIFFUSER	NEW	NEW	NEW	NEW	4505480	V72-Q1061	1.27	3	287 12-Dec-01

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	Installed Hours	Cycles	Signature or Stamp/Date
r	1.27	3	(28) 12-Dec-01
	1.27	3	▲ (28) 12-Dec-01
	1.27	3	12-Dec-01
	1.27	3	12-Dec-01
	1.27	3	12-Dec-01
	1.27	3	12-Dec-01
	1.27	3	12-Dec-01
	1.27	3	" 12-Dec-01
	1.27	3	12-Dec-01
	1.27	3	12-Dec-01
	1.27	3	12-Dec-01
	1.27	3	12-Dec-01
	1.27	3	▼ (28) 12-Dec-01
	1.27	3	(28) 12-Dec-01

Component/ LRU/SRU	Removed Part Number	Removed Serial Number	Removed		Installed Part Number	Installed Serial Number	Installed		Signature or Stamp/Date	
			Hours	Cycles			Hours	Cycles		
FORWARD SEAL PLATE	NEW	NEW	NEW	NEW	4505481	V72-Q244	1.27	3		12-Dec-01
STAR GEAR (1 OF 3)	NEW	NEW	NEW	NEW	4505488	V05-C465	1.27	3		12-Dec-01
STAR GEAR (3 OF 3)	NEW	NEW	NEW	NEW	4505488	V05-C517	1.27	3		12-Dec-01
STAR GEAR (2 OF 3)	NEW	NEW	NEW	NEW	4505488	V21-C052	1.27	3		12-Dec-01
DATA MEMORY MODULE (DMM)	NEW	NEW	NEW	NEW	4505576	0277	1.27	3		12-Dec-01
EXCITER	NEW	NEW	NEW	NEW	4950745	01335192	1.27	3		12-Dec-01
ANTI-SURGE VALVE	NEW	NEW	NEW	NEW	4950899	0991	1.27	3		12-Dec-01
FLOW DIVIDER	NEW	NEW	NEW	NEW	4951486	0348	1.27	3		12-Dec-01
ROLLER BEARING	NEW	NEW	NEW	NEW	4951506	3331-0215	1.27	3		12-Dec-01
LOW OIL PRESSURE SWITCH	NEW	NEW	NEW	NEW	4951510	368-A3Q01	1.27	3		12-Dec-01
FUEL CONTROL SERVO VALVE	NEW	NEW	NEW	NEW	4951568	294	1.27	3		12-Dec-01
CARBON SEAL	NEW	NEW	NEW	NEW	4951586	00501	1.27	3		12-Dec-01
SEAL MATING RING	NEW	NEW	NEW	NEW	4951587	00395	1.27	3		12-Dec-01
FUEL MANIFOLD ASSEMBLY	NEW	NEW	NEW	NEW	4951609	M52871-01	1.27	3		12-Dec-01

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SECTION 5. COMPONENT CHANGE RECORD

Use this section to record Removal and Installation of APU
Components/LRU's (Line Replaceable Units)/SRU (Service Replaceable Units)

Component/ LRU/SRU	Removed Part Number	Removed Serial Number	Removed Hours	Removed Cycles	Installed Part Number	Installed Serial Number	Installed Hours	Installed Cycles	Signature or Stamp/Date
SECONDARY FUEL MANIFOLD	NEW	NEW	NEW	NEW	4951610	F63928-01	1.27	3	12-Dec-01
BLEED AIR VALVE	NEW	NEW	NEW	NEW	4951680	0486C	1.27	3	12-Dec-01
FUEL FILTER ASSEMBLY	NEW	NEW	NEW	NEW	4951960	C0227	1.27	3	12-Dec-01
speed sensor	4504185A	0112271	2121.0	1533	4504185A	1108558773	0	0	Apr 12, 03
bleed valve	4951680	0486C	2121.0	1533	4952304	0175C	2589.5	2401	Apr 12, 03
fuel manifold	4504166A	1101208	2809.9	2005	4504166A	0602106	8.98	16	Jun 01, 03
exciter	4950745	01335192	3001.5	2165	4950745	02454365	0	0	July 17, 03
speed sensor	4504185A	1108558773	841.74	632	4504185A	1179557990	0	0	July 17, 03
temp sensor	4504196A	0110226	3001.5	2165	4504196A	0104176	4163.5	2614	July 17, 03
elect harness	4504230A	11145257	3026.5	2190	4504230A	11725154	1.5	6	July 21, 03
exc. sec	4950745	02454365	1471.50	1598	4950745	03179662	0.0	0	Mar 21, 04
exciter	4950745	03179662	278.9	273	4950745	03261705	0.0	0	Apr 29, 04
bleed valve	4952304	0175C	5742.1	4828	4952304	0727C	154.99	504	May 4, 04
Fuel Control Assy	4504166A	1101208			DECEMBER 1				6-22-03

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SECTION 5. COMPONENT CHANGE RECORD

67

Use this section to record Removal and Installation of APU Components/LRU's (Line Replaceable Units)/SRU (Service Replaceable Units)

Installed Hours	Cycles	Signature or Stamp/Date
1.27	3	12-Dec-01
1.27	3	12-Dec-01
1.27	3	12-Dec-01
0	0	Apr 12, 03
2589.5	2401	Jul 12, 03
8.98	16	Jul 21, 03
0	0	Jul 17, 03
0	0	Jul 17, 03
4163.5	2614	Jul 21, 03
1.5	6	Jul 21, 03
0.0	0	Mar 21, 04
0.0	0	Apr 29, 04
1041.99	504	May 4, 04
		6/22/03

Component/ LRU/SRU	Removed Part Number	Removed Serial Number	Removed Hours	Cycles	Installed Part Number	Installed Serial Number	Installed Hours	Cycles	Signature or Stamp/Date
Hamilton Sundstrand Component Change Report					Hamilton Sundstrand Component Change Report				
Page: 1		Work order: 02123460			Page: 2		Work order: 02123460		
Date: 07/28/2004		Pn: 4504113			Date: 07/28/2004		Pn: 4504113		
Form: See 7/12/2004		Sn: SP-E0114217			Form: See 7/12/2004		Sn: SP-E0114217		
Comp pn	Comp sn	Part name	Install/Remove		Comp pn	Comp sn	Part name	Install/Remove	
4504230A	V72-S128	ELECTRICAL HARNESS	INST		4952404	W322	NOZZLE ASSY, DUPLEX	INST	
4504230A	V72-S154	ELECTRICAL HARNESS	REMOV		4952404	W340	NOZZLE ASSY, DUPLEX	INST	
4504407	V04-D0174	QUILL SHAFT	REMOV		4952404	W400	NOZZLE ASSY, DUPLEX	INST	
4504407A	V16-D0251	QUILL SHAFT	INST						
4951830	1WS05851	NOZZLE ASSY	REMOV						
4951830	1WS05870	NOZZLE ASSY	REMOV						
4951830	1NS08770	NOZZLE ASSY	REMOV						
4951830	1NS08781	NOZZLE ASSY	REMOV						
4951830	1NS08785	NOZZLE ASSY	REMOV						
4951830	1NS08791	NOZZLE ASSY	REMOV						
4952304	0727C	BLEED VALVE	REMOV						
4952375	0251	BLEED AIR VALVE	INST						
4952404	W272	NOZZLE ASSY, DUPLEX	INST						
4952404	W285	NOZZLE ASSY, DUPLEX	INST						
4952404	W290	NOZZLE ASSY, DUPLEX	INST						

28 JUL 2004



28 JUL 2004

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12-29-99-cvn

SECTION 5. COMPONENT CHANGE RECORD

Use this section to record Removal and Installation of APU Components/LRU's (Line Replaceable Units)/SRU (Service Replaceable Units)

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12-29-99-cvr1

SECTION 5. COMPONENT CHANGE RECORD

69

Use this section to record Removal and Installation of APU Components/LRU's (Line Replaceable Units)/SRU (Service Replaceable Units)

Installed	Signature or
ours	Cycles
2-11-08	
2-14-08	
2-7-08	
5-24-05	
8-7-05	

IN Part Number	IN Serial Number	Description	IN TT	IN CSN	IN TSR	IN CSR	OUT Part Number	OUT Serial Number	OUT TT	OUT CSN	OUT TSR	OUT CSR	es	Signature or Stamp/Date
M4504113A	SP-E0114217	OUTLINE ENGINE T-40C14APU-MC12374	15341	6905	11491		M4504113A	SP-E0114217	12374	15341	0	0		18 APRIL 08
4502042	0949	BEARING, BALL-THRUST	N/A	N/A	N/A	N/A	4502042	3158	N/A	N/A	N/A	N/A		
4504185C	083263	SPEED SENSOR ASSY, DUAL HALL	N/A	N/A	N/A	N/A	4504185C	083263	N/A	N/A	N/A	N/A		
4504196A	V00-S076161	AMBIENT PRESSURE (UNAMPLIFIED)	N/A	N/A	N/A	N/A	4504196A	V00-S076161	N/A	N/A	N/A	N/A		
4504230B	V77-C287	HARNESS ASSY, ENGINE CONTROL	N/A	N/A	N/A	N/A	4504230B	V28-S134	N/A	N/A	N/A	N/A		
4504253	V42-C2570	IMP ASSY T40C14	12374	15340	N/A	N/A	4504253	V42-C25385	0	0	N/A	N/A		
4504616A	05-02-91	FUEL CONTROL ASSEMBLY	N/A	N/A	N/A	N/A	4504616A	05-02-91	N/A	N/A	N/A	N/A		
4504847	V15-H157A	TURB WHL T40C14	12374	15340	N/A	N/A	4504847	HE444	0	0	N/A	N/A		
4505576	1005	DATA MEMORY MODULE ASSEMBLY	N/A	N/A	N/A	N/A	4505576	1005	N/A	N/A	N/A	N/A		
4950745	02261705	EXCITER, IGNITION	N/A	N/A	N/A	N/A	4950745	02261705	N/A	N/A	N/A	N/A		
4950899	0790	VALVE, ANTI-SURGE	N/A	N/A	N/A	N/A	4950899	0790	N/A	N/A	N/A	N/A		
4950929	730353-08	COOLER, AIR/OIL	N/A	N/A	N/A	N/A	4950929	730353-08	N/A	N/A	N/A	N/A		
4951486	0348	FLOW DIVIDER	N/A	N/A	N/A	N/A	4951486	0348	N/A	N/A	N/A	N/A		
4951506	3331-0215	BEARING, ROLLER	N/A	N/A	N/A	N/A	4951506	3331-1620	N/A	N/A	N/A	N/A		
4951960	C0227	FILTER ASSY, FUEL	N/A	N/A	N/A	N/A	4951960	C0227	N/A	N/A	N/A	N/A		
4952316-2	0123	VALVE, SOLENOID-FUEL	N/A	N/A	N/A	N/A	4952316-2	0123	N/A	N/A	N/A	N/A		
4952366	832	SWITCH, LOW OIL PRESSURE	N/A	N/A	N/A	N/A	4952366	832	N/A	N/A	N/A	N/A		
4952375	0614C	VALVE, BLEED AIR-SERVO CONTR	N/A	N/A	N/A	N/A	4952375	0614C	N/A	N/A	N/A	N/A		
4952397-1	0117	SWITCH, HIGH OIL TEMPERATURE	N/A	N/A	N/A	N/A	4952397-1	0117	N/A	N/A	N/A	N/A		
4952404	W272	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	N/A	4952404	W272	N/A	N/A	N/A	N/A		
4952404	W322	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	N/A	4952404	W322	N/A	N/A	N/A	N/A		
4952404	W406	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	N/A	4952404	W406	N/A	N/A	N/A	N/A		
4952404	W288	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	N/A	4952404	W288	N/A	N/A	N/A	N/A		
4952404	W340	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	N/A	4952404	W340	N/A	N/A	N/A	N/A		
4952404	W290	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	N/A	4952404	W290	N/A	N/A	N/A	N/A		

4/18/2008 5:42:20 AM HAMILTON SUNDSTRAND POWER SYSTEMS

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12-29-99-cvn

SECTION 5. COMPONENT CHANGE RECORD

Use this section to record Removal and Installation of APU Components/LRU's (Line Replaceable Units)/SRU (Service Replaceable Units)

TRACKED BILL OF MATERIALS														alled Cycles	Signature or Stamp/Date
IN Part Number	IN Serial Number	Description	IN TT	IN CSN	IN TSR	IN CSR	OUT Part Number	OUT Serial Number	OUT TT	OUT CSN	OUT TSR	OUT CSR			
M4504113A	SP-E0114217	OUTLINE, ENGINE T-40C14APU-MC	12513	15505	139	164	VM4504113A	SP-E0114217	12513	15505	139	164			
4502042	3158	BEARING, BALL-THRUST	N/A	N/A	N/A	N/A	[4502042	3158	N/A	N/A	N/A	N/A			
4504185C	083263	SPEED SENSOR ASSY, DUAL HALL	N/A	N/A	N/A	N/A	[4504185C	083263	N/A	N/A	N/A	N/A			
4504196A	V00-S076161	AMBIENT PRESSURE (UNAMPLIFIED)	N/A	N/A	N/A	N/A	[4504196A	V00-S076161	N/A	N/A	N/A	N/A			
4504230B	V28-S134	HARNESS ASSY, ENGINE CONTR	N/A	N/A	N/A	N/A	[4504230B	V28-S134	N/A	N/A	N/A	N/A			
4504253	V42-C5385	IMP ASSY T40C14	139	164	N/A	N/A	[4504253	V42-C5385	139	164	N/A	N/A			
4504616A	05-02-91	FUEL CONTROL ASSEMBLY	N/A	N/A	N/A	N/A	[4504616A	05-02-91	N/A	N/A	N/A	N/A			
4504847	HE444	WHEEL, TURBINE	139	164	N/A	N/A	[4504847	HE444	139	164	N/A	N/A			
4505570	1005	DATA MEMORY MODULE ASSEMB	N/A	N/A	N/A	N/A	[4505570	1005	N/A	N/A	N/A	N/A			
4950745	02261705	EXCITER, IGNITION	N/A	N/A	N/A	N/A	[4950745	02261705	N/A	N/A	N/A	N/A			
4950899	0790	VALVE, ANTI-SURGE	N/A	N/A	N/A	N/A	[4950899	0790	N/A	N/A	N/A	N/A			
4950929	730353-08	COOLER AIR/OIL	N/A	N/A	N/A	N/A	[4950929	730353-08	N/A	N/A	N/A	N/A			
4951486	0348	FLOW DIVIDER	N/A	N/A	N/A	N/A	[4951486	0348	N/A	N/A	N/A	N/A			
4951506	3331-1620	BEARING, ROLLER	N/A	N/A	N/A	N/A	[4951506	3331-1620	N/A	N/A	N/A	N/A			
4951960	C0227	FILTER ASSY, FUEL	N/A	N/A	N/A	N/A	[4951960	C0227	N/A	N/A	N/A	N/A			
4952310-2	0123	VALVE, SOLENOID-FUEL	N/A	N/A	N/A	N/A	[4952310-2	0123	N/A	N/A	N/A	N/A			
4952366	832	SWITCH, LOW OIL PRESSURE	N/A	N/A	N/A	N/A	[4952366	832	N/A	N/A	N/A	N/A			
4952397-1	0117	SWITCH, HIGH OIL TEMPERATURE	N/A	N/A	N/A	N/A	[4952397-1	0117	N/A	N/A	N/A	N/A			
4952404	W322	NOZZLE ASSY, DUPLEX FUEL (CH	N/A	N/A	N/A	N/A	[4952404	W322	N/A	N/A	N/A	N/A			
4952404	W272	NOZZLE ASSY, DUPLEX FUEL (CH	N/A	N/A	N/A	N/A	[4952404	W272	N/A	N/A	N/A	N/A			
4952404	W290	NOZZLE ASSY, DUPLEX FUEL (CH	N/A	N/A	N/A	N/A	[4952404	W290	N/A	N/A	N/A	N/A			
4952404	W340	NOZZLE ASSY, DUPLEX FUEL (CH	N/A	N/A	N/A	N/A	[4952404	W340	N/A	N/A	N/A	N/A			
4952404	W288	NOZZLE ASSY, DUPLEX FUEL (CH	N/A	N/A	N/A	N/A	[4952404	W288	N/A	N/A	N/A	N/A			
4952404	W406	NOZZLE ASSY, DUPLEX FUEL (CH	N/A	N/A	N/A	N/A	[4952404	W406	N/A	N/A	N/A	N/A			
4952829	0614C	VALVE BLEED AIR-SERVO CONTR	N/A	N/A	N/A	N/A	[4952829	0614C	N/A	N/A	N/A	N/A			

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27

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25

71

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Component/ LRU/SRU		Removed Part Number		Removed Serial Number		Removed Hours Cycles		Installed Part Number		Installed Serial Number		Installed Hours Cycles		Signature or Stamp/Date	
	IN Part Number	IN Serial Number	Description	IN TT	IN CSN	IN TSR	IN CSR	OUT Part Number	OUT Serial Number	OUT TT	OUT CSN	OUT TSR	OUT CSR		
	M4504113A	SP-E0114217	OUTLINE, ENGINE T-40C14APU-MC13258	16488	745	883	VM4504113A	SP-E0114217	13258	16488	0	0			
	4504185C	083263	SPEED SENSOR ASSY, DUAL HALINIA	N/A	N/A	N/A	44504185C	083263	N/A	N/A	N/A	N/A			
	4504196A	V00-S076151	AMBIENT PRESSURE(UNAMPLIFIED)	N/A	N/A	N/A	44504196A	V00-S076151	N/A	N/A	N/A	N/A			
	4504230B	V28-S134	HARNESS ASSY, ENGINE CONTRONIA	N/A	N/A	N/A	44504230B	V28-S134	N/A	N/A	N/A	N/A			
	4504253	V42-C5385	IMP ASSY T40C14	884	1148	N/A	44504253	V42-C5385	884	1148	N/A	N/A			
	4504616A	05-02-91	FUEL CONTROL ASSEMBLY	N/A	N/A	N/A	44504616A	05-02-91	N/A	N/A	N/A	N/A			
	4504847	HE444	WHEEL, TURBINE	884	1148	N/A	44504847	HE444	884	1148	N/A	N/A			
	4505576	1005	DATA MEMORY MODULE ASSEMB	N/A	N/A	N/A	44505576	1005	N/A	N/A	N/A	N/A			
	4950745	02261705	EXCITER, IGNITION	N/A	N/A	N/A	44950745	02202062	N/A	N/A	N/A	N/A			
	4950899	0790	VALVE, ANTI-SURGE	N/A	N/A	N/A	44950899	0790	N/A	N/A	N/A	N/A			
	4950929	730353-08	COOLER AIR/OIL	N/A	N/A	N/A	44950929	730353-08	N/A	N/A	N/A	N/A			
	4951486	0346	FLOW DIVIDER	N/A	N/A	N/A	44951486	0346	N/A	N/A	N/A	N/A			
	4951960	C0227	FILTER ASSY, FUEL	N/A	N/A	N/A	44951960	C0227	N/A	N/A	N/A	N/A			
	4952316-2	0123	VALVE, SOLENOID-FUEL	N/A	N/A	N/A	44952316-2	0123	N/A	N/A	N/A	N/A			
	4952386	B32	SWITCH, LOW OIL PRESSURE	N/A	N/A	N/A	44952386	B32	N/A	N/A	N/A	N/A			
	4952397-1	0117	SWITCH, HIGH OIL TEMPERATURE	N/A	N/A	N/A	44952397-1	0117	N/A	N/A	N/A	N/A			
	4952404	W290	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	44952404	W290	N/A	N/A	N/A	N/A			
	4952404	W340	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	44952404	W340	N/A	N/A	N/A	N/A			
	4952404	W288	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	44952404	W288	N/A	N/A	N/A	N/A			
	4952404	W322	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	44952404	W322	N/A	N/A	N/A	N/A			
	4952404	W272	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	44952404	W272	N/A	N/A	N/A	N/A			
	4952404	W405	NOZZLE ASSY, DUPLEX FUEL (CH)	N/A	N/A	N/A	44952404	W405	N/A	N/A	N/A	N/A			
	4952829	0614C	VALVE, BLEED AIR-SERVO CONTIN	N/A	N/A	N/A	44952829	0614C	N/A	N/A	N/A	N/A			

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12-29-99-cvn

SECTION 5. COMPONENT CHANGE RECORD

Use this section to record Removal and Installation of APU Components/LRU's (Line Replaceable Units)/SRU (Service Replaceable Units)

Component/ LRU/SRU		Removed Part Number		Removed Serial Number		Removed Hours Cycles		Installed Part Number		Installed Serial Number		Installed Hours Cycles		Signature or Stamp/Date	
Tracked Bill of Materials															
Received IN Part Number	Serial No.	TSN	CSN	TSR *	CSR *	Description	Shipped OUT Part Number	Serial No.	TSN	CSN	TSR *	CSR *			
M4504113A	SP-E0114217	16764.63	21566	3506.63	5078	S/O: 5083964 PO: 300121925	M4504113A	SP-E0114217	16764.63	21566	0.00	0			
4504253	V42-C5385	4390.63	6226	N/A	N/A	IMP ASSY T40C14	4504253	SIF1136	0.00	0	N/A	N/A			
4504847	HE444	4390.63	6226	N/A	N/A	WHEEL TURBINE	4504847	HH706	0.00	0	N/A	N/A			
4504185C	083033	N/A	N/A	N/A	N/A	SPEED SENSOR ASSY, DUAL HALL E	4504185C	083033	N/A	N/A	N/A	N/A			
4504196A	VOO-S076161	N/A	N/A	N/A	N/A	AMBIENT PRESSURE(UNAMPLIFIED) &	4504196A	VOO-S076161	N/A	N/A	N/A	N/A			
4504230B	V28-S134	N/A	N/A	N/A	N/A	HARNESS ASSY, ENGINE CONTROL	4504230B	S743	N/A	N/A	N/A	N/A			
4504616A	05-02-91	N/A	N/A	N/A	N/A	FUEL CONTROL ASSEMBLY	4504616A	05-02-91	N/A	N/A	N/A	N/A			
4505575	1005	N/A	N/A	N/A	N/A	DATA MEMORY MODULE ASSEMBLY	4505575	1005	N/A	N/A	N/A	N/A			
4950745	03053230	N/A	N/A	N/A	N/A	EXCITER, IGNITION	4950745	03053230	N/A	N/A	N/A	N/A			
4950899	0790	N/A	N/A	N/A	N/A	VALVE, ANTI-SURGE	4950899	1137	N/A	N/A	N/A	N/A			
4950929	730353-08	N/A	N/A	N/A	N/A	COOLER, AIR/OIL	4950929	730353-08	N/A	N/A	N/A	N/A			
4951486	0348	N/A	N/A	N/A	N/A	FLOW DIVIDER	4951486	0348	N/A	N/A	N/A	N/A			
4951960	C0227	N/A	N/A	N/A	N/A	FILTER ASSY, FUEL	4952404	C1112	N/A	N/A	N/A	N/A			
4952316-2	0123	N/A	N/A	N/A	N/A	VALVE, SOLENOID FUEL	4952316-2	0123	N/A	N/A	N/A	N/A			
4952366	832	N/A	N/A	N/A	N/A	SWITCH, LOW OIL PRESSURE	4952366	832	N/A	N/A	N/A	N/A			
4952397-1	0117	N/A	N/A	N/A	N/A	SWITCH, HIGH OIL TEMPERATURE	4952397-1	0117	N/A	N/A	N/A	N/A			
4952829	0158	N/A	N/A	N/A	N/A	VALVE, BLEED AIR-SERVO CONTROL	4952829	1040	N/A	N/A	N/A	N/A			
20 JUN 2011															

HSPS
12-29-99-cvn

20 JUN 2011



73

Installed Hours	Cycles	Signature or Stamp/Date
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JUN 2015

Received IN Part Number	Serial No.	TSN	CSN	TSR *	CSR *	Description	Shipped OUT Part Number	Serial No.	TSN	CSN	TSR *	CSR *
M4504113A	SP-ED114217	19055.30	24894	2290.67	3328	S/C: 5439971 P.O. 300188168	M4504113A	SP-ED114217	19055.30	24894	0.00	0
4504253	SIF1136	2290.67	3328	N/A	N/A	IMP ASSY T40C14	4504253	SIF1234	0.00	0	N/A	N/A
4504847	HH706	2290.67	3328	N/A	N/A	WHEEL, TURBINE	4504847	HJ096	0.00	0	N/A	N/A
4504185C	119343	N/A	N/A	N/A	N/A	SPEED SENSOR ASSY, DUAL HALL E	4504185C	119343	N/A	N/A	N/A	N/A
4504196A	V00-S076161	N/A	N/A	N/A	N/A	AMBIENT PRESSURE (UNAMPLIFIED) &	4504196A	V00-S076161	N/A	N/A	N/A	N/A
4504230B	S743	N/A	N/A	N/A	N/A	HARNASS ASSY, ENGINE CONTROL	4504230B	S743	N/A	N/A	N/A	N/A
4504616A	05-02-91	N/A	N/A	N/A	N/A	FUEL CONTROL ASSEMBLY	4504616B	05-02-91	N/A	N/A	N/A	N/A
4505576	1005	N/A	N/A	N/A	N/A	DATA MEMORY MODULE ASSEMBLY	4505576	1005	N/A	N/A	N/A	N/A
4950745	J11230363	N/A	N/A	N/A	N/A	EXCITER, IGNITION	4950745	J11230363	N/A	N/A	N/A	N/A
4950899	1137	N/A	N/A	N/A	N/A	VALVE, ANTI-SURGE	4950899	1299	N/A	N/A	N/A	N/A
4950929	730353-08	N/A	N/A	N/A	N/A	COOLER, AIR/OIL	4950929	754186-007	N/A	N/A	N/A	N/A
4951486	0348	N/A	N/A	N/A	N/A	FLOW DIVIDER	4951486	0348	N/A	N/A	N/A	N/A
4952316-2	0123	N/A	N/A	N/A	N/A	VALVE, SOLENOID-FUEL	4952316-2	0123	N/A	N/A	N/A	N/A
4952366	832	N/A	N/A	N/A	N/A	SWITCH, LOW OIL PRESSURE	4952366	832	N/A	N/A	N/A	N/A
4952397-1	0117	N/A	N/A	N/A	N/A	SWITCH, HIGH OIL TEMPERATURE	4952397-1	0117	N/A	N/A	N/A	N/A
4952505	C1112	N/A	N/A	N/A	N/A	FILTER ASSEMBLY, FUEL	4952505	C1112	N/A	N/A	N/A	N/A
4952829	2069	N/A	N/A	N/A	N/A	VALVE, BLEED AIR-SERVO CONTROL	4952829	2069	N/A	N/A	N/A	N/A

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12-29-99-cvп

AIRCRAFT TECHNICAL AND JOURNEY LOG

SERIAL NUMBER: 100161

Dates and Times in GMT (Z) and items bounded by a double line are to be completed prior to flight
Complete in block capitals using a ballpoint pen and BLACK ink

AIRCRAFT TYPE	ERJ145
AIRCRAFT REGN	G-CISK
FLIGHT NUMBER	
DATE	250116

FROM				
TO				
TYPE OF FLIGHT	☐ Scheduled ☐ Non-Scheduled ☐ Private ☐ Aerial Work			

DUTY	CREW MEMBERS
Captain	
First Officer	
Supernumerary # 1	
Supernumerary # 2	

TOTAL CYCLES				TOTAL TIME				HOURS				MINS			
TOTAL CYCLES B/F				TOTAL TIME B/F											
FLIGHT CYCLES				FLIGHT TIME											
TOTAL CYCLES				31935				TOTAL TIME				3494947			

 FROM REPAIRS
 TECH LOG
 21
 TO REPAIRS
 TECH LOG

PRE-DEPARTURE CHECK	Signature
	Date

CHOCKS ON				
CHOCKS OFF				
BLOCK TIME				

CAPTAIN'S PRE-FLIGHT CERTIFICATION	
I certify that I am satisfied that the aircraft is airworthy and equipped for the intended flight(s).	Signature
	Date

LAND				
TAKE OFF				
FLIGHT TIME				

FUEL RECORD	TANKS LH (kg)	TANKS CTR (kg)	TANKS RH (kg)	TOTAL (kg)	Calc. Uplift
Before Refueling (A)					Ltrs.
Actual Uplift (B)					Actual Uplift
Departure Fuel (C)					Ltrs.
Adjustment (D)					I certify that the fuel is as stated
Final Departure Fuel (E)					Signature

		1	2	3	4	APU
ENGINE OIL RECORD						
UPLIFT						
TOTAL						
HYDRAULIC UPLIFT		SYS 1:		SYS 2:		SYS 3:
CERTIFICATION		Signature		Date		

PERFORMANCE DATA					N1	EGT	N2	F-FLOW	OIL TEMP	OIL PRESS
GROSS WGT	ALTITUDE	IAS	OAT/TAT	ENG #1						
				ENG #2						

DEFECT DESCRIPTION			ACTION TAKEN		* RETURN TO SERVICE APPROVAL	
Defect Number:	1	ATA Chapter:	MEL & ADD Limitation:		Approval Number:	Ea 22
CUSTOMER REQUEST - CARRY OUT MRAR TASK 25-22-01-280-001-ADD IN APU APU FIRE EXTINGUISHER BOTTLE FOR WEIGHT AND CHECK BOTTLE P/N 30100050-5 S/N 44991A1			APU FIRE EXTINGUISHER BOTTLE WEIGHED & BOTTLE PRESSURE CHECKED STAN. MM 16-02-01-200-801-A REV 6.3 SCALES USED: GRN144811 TORQUE WRENCH GRN145628 P/N OFF: P/N ON: S/N OFF: S/N ON: ATA REF: GRN:		PRINT: KVP	* Signature: [Signature]
					Date:	25/1/2016
Defect Number:	2	ATA Chapter:	MEL & ADD Limitation:		Approval Number:	Ea 22
CUSTOMER REQUEST - CARRY OUT DATA READOUT FROM APU FADEC			APU READ OUT 90 STAN. MM 49-64-03-200-801-A HRS: 2548.1 EVENTS: 23769 P/N OFF: P/N ON: S/N OFF: S/N ON: ATA REF: 49-64-03-200-801-A GRN:		PRINT: KVP	* Signature: [Signature]
					Date:	29/1/2016

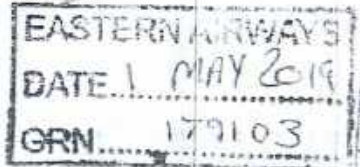
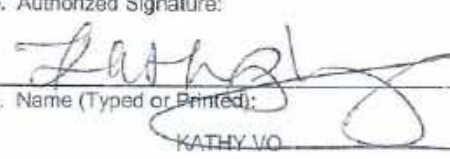
After Flight	Date:	Number of Defects	Operating Pilot	Autoland	ASR
Captain Print Name and Sign:			P1 / P2	Sat / Unsat	Y / N
Time:				I II III	Defect No.:
			Arrival Fuel: _____ Kg		

* Certificate of Release to Service

Certifies that the work specified except as otherwise specified was carried out in accordance with Part 145 and in respect to that work the aircraft/aircraft component is considered ready for release to service.

Organization EASA Part-145 No. UK145.00091

CTA Form No: CTA0010 R1

1. Approving Civil Aviation Authority / Country: FAA / UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 00000000000006175664 Page 1 of 1	
4. Organization Name and Address: Hamilton Sundstrand World Wide Repair Phoenix Repair Station 1007 E. University Drive Phoenix, AZ 85034-6513		JW23941K		5. Work Order/Contract/Invoice Number: 42525750 PO-000117285	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
01	DATA MEMORY MODULE ASSEMBLY	4505576A	1	2643	INSPECTED/ TESTED
12. Remarks: Purpose: Approval for Return to Service Unit was INSPECTED/TESTED in accordance with CMM 49-70-04 REV.6 DATED 03/15/2015 FUNCTIONAL TEST PERFORMED IAW ESR 1216 REV. A TT: UNK TCSN: UNK  Certifies that the work specified in block 11/12 was carried out in accordance with EASA Part 145 and in respect to that work the [product/article] is considered ready for release to service under EASA Part 145 Approval No. EASA145.4905					
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.			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:		14c. Approval / Certificate No.:
			 KATHY VO		JW23941K
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):	14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):
			KATHY VO		30 JUL 2018
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.					



ADDITIONAL PAGE 419
AEROMEXICO

Inventario de Accesorios del APU de la Aeronave EMB-145 EMB-145 APU Accessory Inventory

CODIGO:	F-GML-11
Code	
FECHA DE EMISIÓN:	Abril 15, 2001
Issue Date	
FECHA DE EMISIÓN:	Agosto 02, 2001
Issue Date	
NÚMERO DE REVISIÓN:	Original
Revision Number	

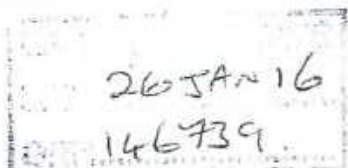
EMB 145 APU Accessory Inventory

APU IPC	ITEM	DESCRIPTION	PART NUMBER	SERIAL NUMBER	QTY	INSTALLED (Yes/No)
49-20-00	005	Bleed Air Servo Valve	4952829	2069	1	YES
49-20-00	130	Anti-Surge Valve	4950899	1299	1	YES
49-20-00	225	Fuel Control Assembly	4504616B	05-02-91	1	YES
49-20-00	305	Air Oil Cooler	4950929	754186-007	1	YES
49-20-00	425	Data Memory Module	4505576	1005	1	YES
49-20-00	472	Exciter Ignition	4950745	J11230363	1	YES
49-20-00	565	Fuel Solenoid Valve	4952316-2	0123	1	YES
49-20-00	065	Engine Harness Assembly	Only Assembly Inspection		1	YES
49-20-00	405	Fuel Filter Assembly	Only Assembly Inspection		1	YES
49-20-00	435	Pressure and Temperature Sensor	Only Assembly Inspection		1	YES
49-20-00	465	Cable Ignition	Only Assembly Inspection		2	YES
49-20-00	580	Flow Divider	Only Assembly Inspection		1	YES
49-24-00	005	Thermocouple	Only Assembly Inspection		1	YES
49-26-00	105	High Oil Temperature Switch	Only Assembly Inspection		1	YES
49-26-00	125	Low Oil Pressure Switch	Only Assembly Inspection		1	YES
49-26-00	285	Speed Sensor	Only Assembly Inspection		1	YES
APU Installed in A/C			APU Serial Number			
			SP-ED114217			

Note 1: If the Part number or the serial number is not visible indicate as NR and mark if is installed or not.

Note 2: The components mark as "Only Assembly Inspection" refers to inspect if the component if is assembly, complete and correct.

Notes:

1 País (Country) BRASIL		2 Título (Title) AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL (BRAZILIAN CIVIL AVIATION AUTHORITY) CERTIFICADO DE LIBERAÇÃO AUTORIZADA (AUTHORIZED RELEASE CERTIFICATE) ETIQUETA DE APROVAÇÃO DE AERONAVEGABILIDADE (AIRWORTHINESS APPROVAL TAG) FORMULÁRIO (FORM) SEGVÓO 003				3 Certificado No. (Certificate No./System tracking Ref.) 2000508132	
4 Empresa (Organization)		EMBRAER - Empresa Brasileira de Aeronáutica S/A - Brasil Bât Eddington Paris Nord 2-33 Rue des Vanesses -BP 57356 Villepinte-95942 Roissy-France COP E-7203-01				5 Ordem de Serviço/Contrato/Nota Fiscal (Work Order, Contract or Invoice) 0022400799	
6 Item (Item)	7 Descrição (Description)	8 Número da Peça (Part Number)	9 Aplicabilidade* (Eligibility)	10 Quantidade (Quantity)	11 Número de Série/Lote (Serial/Batch Number)	12 Categoria/Trabalho (Status/Work)	
000001	SENSOR-TEMPERATURE,APU SY	4504185D	TBV by installer	1	0172199		
13 Observações (Remarks) Export. The referenced parts conform to the EASA approved design data as identified in EASA IM.A.032 and are in condition for safe operation. 0087162126 / 2014.							
Partes com vida limitada devem ser acompanhadas de histórico de manutenção incluindo tempo total/ciclo total/tempo desde que novo. (Limited life parts must be accompanied by maintenance history including total time/total cycles/time since new.)							
14 Certifica que o (s) item (s) acima identificado (s) foi (foram) fabricado (s) em conformidade aos: (Certifies that article (s) identified above was (were) manufactured in conformity to:)				15 ☐ Retorno ao serviço de acordo com RBHA 43.9 (Return to service in accordance with RBHA 43.9)			
☒ dados de projeto aprovados e está (ão) em condição segura de operação (approved design data and are in a condition for safe operation)				Certifica que, a menos especificado no bloco 13, o trabalho especificado no bloco 12, e descrito no bloco 13, foi executado de acordo com o Regulamento Brasileiro de Homologação Aeronáutica - RBHA 43-6, em relação ao trabalho realizado, a (s) peça (s) é (são) aprovada (s) para retorno ao serviço. (Certifies that, unless otherwise specified in block 13, the work identified in block 12 and described in block 13, was accomplished in accordance with Brazilian Regulation for Aeronautical Certification - RBHA 43 and in respect to the work performed the part (s) is (are) approved for return to service.)			
☐ dados de projeto não aprovado especificados no bloco 13 (non-approved design data specified in block 13)				☐ Outros regulamentos especificados no bloco 13 (Others regulations specified in block 13)			
16 Assinatura do Representante da ANAC (Signature ANAC Representative) 		17 No. Autorização da ANAC (ANAC Authorization No.) 2009C01-03		20 Pessoa Autorizada (Authorized Signature) 		21 No. CHE/CHETA (Certificate Number) 2009C01-03	
17 Nome (Name) JOSE LOPES DE SOUZA		18 Data (Date) 21/MAR/14		22 Nome (Name) JOSE LOPES DE SOUZA		23 Data (Date) 21/MAR/14	
* O INSTALADOR DEVE FAZER VERIFICAÇÃO CRUZADA DA APLICABILIDADE ATRAVÉS DOS DADOS TÉCNICOS APLICÁVEIS (INSTALLER MUST CROSS CHECK ELIGIBILITY WITH APPLICABLE TECHNICAL DATA)							
RESPONSABILIDADE DO USUÁRIO / INSTALADOR				(USER / INSTALLER RESPONSIBILITY)			
É IMPORTANTE COMPREENDER QUE A EXISTÊNCIA DESTES DOCUMENTOS POR SI SÓ NÃO CONSTITUI AUTOMATICAMENTE UMA AUTORIZAÇÃO PARA INSTALAR A PARTE/COMPONENTE/CONJUNTO.				(IT IS IMPORTANT TO UNDERSTAND THAT THE EXISTENCE OF THIS DOCUMENT ALONE DOES NOT AUTOMATICALLY CONSTITUTE AUTHORITY TO INSTALL THE PART/COMPONENT/ASSEMBLY.)			
SE O TRABALHO DO USUÁRIO/INSTALADOR É REALIZADO DE ACORDO COM OS REGULAMENTOS NACIONAIS DE UMA AUTORIDADE DE AERONAVEGABILIDADE DIFERENTE DA AUTORIDADE DE AERONAVEGABILIDADE DO PAÍS ESPECIFICADO NO BLOCO 1, É ESSENCIAL QUE O USUÁRIO/INSTALADOR ASSEGURE QUE A SUA AUTORIDADE DE AERONAVEGABILIDADE ACEITA PARTES/COMPONENTES/CONJUNTOS DA AUTORIDADE DE AERONAVEGABILIDADE DO PAÍS ESPECIFICADO NO BLOCO 1.				(WHERE THE USER/INSTALLER WORK IS PERFORMED 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.)			
AS DECLARAÇÕES NOS BLOCOS 14 E 15 NÃO CONSTITUEM UM CERTIFICADO DE INSTALAÇÃO. EM TODOS OS CASOS, OS REGISTROS DE MANUTENÇÃO DA AERONAVE DEVEM CONTER UM CERTIFICADO DE INSTALAÇÃO EMITIDO DE ACORDO COM REGULAMENTOS NACIONAIS PELO USUÁRIO/INSTALADOR ANTES QUE A AERONAVE POSSA SER LIBERADA PARA VÔO.				(STATEMENTS IN BLOCK 14 AND 15 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.)			

 AEROMEXICO connect AEROLITORAL, S.A. DE C.V. TALLER DGAC-122		TARJETA DE CONDICION DE COMPONENTE Servizable / Unserviceable Unit Identification Tag		No 200372 CLAVE Code F-GAC-19	
UNIDAD UTIL / Serviceable Assembly				INSTALACION / Installation	
1. DESCRIPCION / Description <i>APU Engine T40C14</i>		31. TECHNICAL LOG (TL) <i>363558</i>		32. FOLIO DE BITACORA Log Book Number <i>363558</i>	
2. P/N <i>M4504113A</i>		3. S/N <i>SP-ED114217</i>		4. O.T. W.O. <i>7300595</i>	
SUB-COMPONENTES / Sub-assemblies				33. AERONAVE Aircraft <i>XA-UL1</i>	
5. DESCRIPCION Description _____		8. P/N _____		34. ESTACION Station <i>MEX</i>	
7. S/N _____		9. FECHA DE VENCIMIENTO / Due Date _____		35. MOTOR Engine _____	
10. DESCRIPCION Description _____		11. P/N _____		36. FECHA Date <i>28 Dec-12</i>	
12. S/N _____		13. FECHA DE VENCIMIENTO / Due Date _____		37. POSICION Position <i>U</i>	
15. INVENTARIO ADJUNTO / Inventory Accessory _____		SI/Yes ☒ NO ☐		38. TECNICO/Technician _____	
16. REPARACION EFECTUADA / Last Shop Visit REP. MAYOR ☐ REP. PARCIAL ☒ REVISION ☐ PBA. FUNCIONAL ☐ Overhaul/Rebuild Registered Rework Functional Test LIMPIEZA ☐ NUEVA ☐ OTRO (ESPECIFIQUE) ☐ Clean New Other 17. TSN/CSN <i>24894.00</i> 18. TSC/CSO <i>UNK</i> 19. TBR/CSR <i>0.0</i>				39. SUPERVISOR/ RESPONSABLE MANTENIMIENTO NOMBRE Name <i>A. Hernandez</i> LICENCIA Certificate <i>200703040</i> FIRMA Signature <i>[Signature]</i>	
20. REPARO / REMOVIÓ Repaired / Removed <i>Hamilton Sandstrom</i>				40. P/N <i>M4504113A</i> 41. S/N <i>SP-ED114045</i>	
21. LICENCIA / Certificate <i>LI32658 L</i>				42. DESCRIPCION Description _____	
22. FIRMA Signature <i>[Signature]</i>				43. P/N _____	
23. VENCIMIENTO EN ALMACENAR Short Life Due _____				44. S/N _____	
24. FECHA Date <i>Oct 04/2012</i>				45. DESCRIPCION Description _____	
25. AERONAVE/MOTOR Aircraft/Engine _____				46. P/N _____	
26. POSICION Position _____				47. S/N _____	
27. FOLIO DE BITACORA Log Book Page Number _____				48. MOTIVO DE REMOCION / Reason for Removal FALLA / Failure ☒ ANALISIS DE FALLA / Troubleshooting ☐ OTRO / Other ☐	
28. INSPECTOR / SUPERVISOR <i>[Signature]</i>				49. DESCRIPCION MOTIVO DE REMOCION / Reason of Removal Description <i>DAÑO INTERNO</i>	
29. REVISION 4 15-Mar-10 ESTÁ UNIDAD HA SIDO INSPECCIONADA Y SE DECLARA COMO AERONAVEGABLE Y ES APROBADO SU REGRESO A SERVICIO / This part has been inspected and determined accordingly approved to return to service.				30. FECHA Date <i>Dec 22/2012</i>	
31. SELLO 				32. SELLO 	

COMA VOTOS #1) ENVIAS AL SEPARTEMENTO DE CONTRA DE REQUISITOS JUNTO CON LA TALLER DEL TALLER SUPADOR LA CIPSA-AVARILLA (3) DESA ARCHIVO DE A NUNISTE COPA DE CARTON IN

Part Number	Serial Number	Part Number Description
M4504113A	SP-E0114217	APU C14

Fitment Details

Aircraft Type	Aircraft Reg	ATA	Position	Zone	Fitted To Part	Fitted To Part Description	Fitted To Serial	Last Movement	Component Date Of Manufacture
-		49200001	001		*** NOT FITTED ***		*** NOT FITTED ***	02Mar2020	

Expired Life

Unit	Since New	Since Fit	Since Overhaul	Since Repair
Days	2621	0	2621	?
Hours	35337:03	0:00	35337:03	9987:45
Landings	42513	0	42513	9897
APU CYCLES	39944	0	39944	15050
APU DECIMAL HOURS	28151.00	0.00	28151.00	9095.70

Maintenance/Modification Activities

Overdue	Card/ DRN	Requirement/ Remarks	Threshold	Life	Last Compl.	Limit/ Interval	Next Due	Remaining	Tech Log	Last Completed Works Order	Repetitions
	0570 / 001	49-31-00 / OPC FADEC BITE MESSAGE		Date Days (Calendar) Hours Landings APU CYCLES APU DECIMAL HOURS	11Aug2019 2417 34797:45 41892 38834 27839.00	400.00	28239.00	88.00	194405/	018144	99

	002	49-31-04a / DISCARD APU INLET F.FILTER @ 800 APU HRS		Date Days (Calendar) Hours Landings APU CYCLES APU DECIMAL HOURS		800.00					0
--	-----	--	--	---	--	--------	--	--	--	--	---

Maintenance/Modification Activities

Overdue	Card/DRN	Requirement/Remarks	Threshold	Life	Last Compl.	Limit/Interval	Next Due	Remaining	Tech Log	Last Completed Works Order	Repetitions
	0572 / 003	49-41-03 / INSPECT IGNITOR PLUG @ 1200 APU HRS		Date Days (Calendar) Hours Landings APU CYCLES APU DECIMAL HOURS	200Oct2019 2486 35067:55 42197 39415 27973.00	1200.00	29173.00	1022.00	053780/01		99
	004	49-91-00a / CHECK OIL LEVEL @ 400 APU HRS		Date Days (Calendar) Hours Landings APU CYCLES APU DECIMAL HOURS							0
	005	49-91-00b / DRAIN/REPLACE OIL @ 2000 APU HRS / 20 MTHS		Date Days (Calendar) Hours Landings APU CYCLES APU DECIMAL HOURS	04Dec2019 2532 35111:34 42251 39505 28023.00	608 2000.00	03Aug2021 30023.00	-56 1872.00	194721/		99
	006	49-91-01 / DISCARD APU OIL FILTER @ 2000 APU HRS / 20MTHS		Date Days (Calendar) Hours Landings APU CYCLES APU DECIMAL HOURS	03Feb2019 2228 34195:16 41183 37554 27482.00	608 2000.00	03Oct2020 29482.00	-360 1331.00	048528/	016327	99
	007	FAA AD2001-04-02 / PROHIBIT IN-FLIGHT APU STARTS - C14 APU ONLY		Date Days (Calendar) Hours Landings APU CYCLES APU DECIMAL HOURS							0
	008	FAA AD2001-10-01 / REMOVAL OF "NO IN-FLIGHT STARTS"		Date Days (Calendar) Hours Landings APU CYCLES APU DECIMAL HOURS							0

Maintenance/Modification Activities

Overdue	Card/ DRN	Requirement/ Remarks	Threshold	Life	Last Compl.	Limit/ Interval	Next Due	Remaining	Tech Log	Last Completed Works Order	Repetitions
	009	FAA 2002-15-02 / REPLACEMENT OF COMPRESSOR WHEEL PN 100636-1		Date Days (Calendar) Hours Landings APU CYCLES APU DECIMAL HOURS	12Dec2001 0 0:00 0 0 0.00				P.N. NEVER FITTED/		1
	010	SIL APS 500-49-518 / C14 ONLY - N/A - DVI FUEL FILTER BRACKET		Date Days (Calendar) Hours Landings APU CYCLES APU DECIMAL HOURS	04Oct2012 ? 25349:18 32616 24894 19055.18	24Aug2011			HAMILTON SUNDSTRAND/		0
	0563 / 011	49-31-04b / DISCARD APU INLET FILTER @1200 APU HRS		Date Days (Calendar) Hours Landings APU CYCLES APU DECIMAL HOURS	03Feb2019 2228 34195:16 41183 37554 27482.00	1200.00	28682.00	531.00	048528/	016327	99

Component History

Date	Movement Type	Details	Tech Log	Batch No	Unit Days	Unit Hours	Unit Landings	Unit NSBL	Owner Days	Owner Hours	Owner Landings	Owner NSBL
02Mar2020	Removal	G-CISK/49200001/001/3.13	021142/0004		2621	35337:03	42513	39944 APU CYCLES 28151.00 APU DECIMAL HOURS	6586	38690:03	35831	15050 APU CYCLES 9095.70 APU DECIMAL HOURS
04Dec2019	Rep Rtn	49-91-00b	194721/		2532	35111:34	42251	39505 APU CYCLES 28023.00 APU DECIMAL HOURS				
20Oct2019	Rep Rtn	49-41-03	053780/01		2486	35067:55	42197	39415 APU CYCLES 27973.00 APU DECIMAL HOURS				
11Aug2019	Rep Rtn	49-31-00	194405/		2417	34797:45	41892	38834 APU CYCLES 27839.00 APU DECIMAL HOURS				
02May2019	Rep Rtn	49-31-00	191983/		2316	34462:50	41521	38189 APU CYCLES 27686.00 APU DECIMAL HOURS				
03Feb2019	Rep Rtn	49-91-01	048528/		2228	34195:16	41183	37554 APU CYCLES 27482.00 APU DECIMAL HOURS				
03Feb2019	Rep Rtn	49-91-00b	048528/		2228	34195:16	41183	37554 APU CYCLES 27482.00 APU DECIMAL HOURS				
03Feb2019	Rep Rtn	49-31-04b	048528/		2228	34195:16	41183	37554 APU CYCLES 27482.00 APU DECIMAL HOURS				
15Jan2019	Rep Rtn	49-31-00	183822/		2209	34135:18	41112	37427 APU CYCLES 27438.00 APU DECIMAL HOURS				
13Sep2018	Rep Rtn	49-31-00	190184/		2085	33735:37	40685	36584 APU CYCLES 27201.00 APU DECIMAL HOURS				
09Jul2018	Rep Rtn	49-41-03	012140/AC3		1995	33652:23	40598	36387 APU CYCLES 27111.00 APU DECIMAL HOURS				
08Apr2018	Rep Rtn	49-31-00	187789/		1927	33493:10	40446	36108 APU CYCLES 26992.00 APU DECIMAL HOURS				
12Nov2017	Rep Rtn	49-31-00	184881/		1780	33212:11	40162	35566 APU CYCLES 26751.00 APU DECIMAL HOURS				

Component History

Date	Movement Type	Details	Tech Log	Batch No	Unit Days	Unit Hours	Unit Landings	Unit NSBL	Owner Days	Owner Hours	Owner Landings	Owner NSBL
13Jun2017	Rep Rtn	49-91-01	176139/		1628	32801:31	39758	34842 APU CYCLES 26426.00 APU DECIMAL HOURS				
13Jun2017	Rep Rtn	49-91-00b	176139/		1628	32801:31	39758	34842 APU CYCLES 26426.00 APU DECIMAL HOURS				
13Jun2017	Rep Rtn	49-41-03	176139/		1628	32801:31	39758	34842 APU CYCLES 26426.00 APU DECIMAL HOURS				
13Jun2017	Rep Rtn	49-31-00	176139/		1628	32801:31	39758	34842 APU CYCLES 26426.00 APU DECIMAL HOURS				
13Jun2017	Rep Rtn	49-31-04b	176139/		1628	32801:31	39758	34842 APU CYCLES 26426.00 APU DECIMAL HOURS				
15Jan2017	Rep Rtn	49-31-00	176327/		1479	32486:05	39437	34273 APU CYCLES 26175.00 APU DECIMAL HOURS				
05Jul2016	Rep Rtn	49-31-00	170000/		1285	32040:10	38979	33445 APU CYCLES 25808.00 APU DECIMAL HOURS				
05Feb2016	Rep Rtn	49-91-01	019153/03		1104	31582:53	38606	32674 APU CYCLES 25401.00 APU DECIMAL HOURS				
05Feb2016	Rep Rtn	49-91-00b	019153/03		1104	31582:53	38606	32674 APU CYCLES 25401.00 APU DECIMAL HOURS				
11Nov2015	Rep Rtn	49-31-00			???????	?????:??	???????	32674 APU CYCLES 25401.00 APU DECIMAL HOURS				
26Oct2015	Rep Rtn	49-91-01			???????	?????:??	???????	32674 APU CYCLES 25401.00 APU DECIMAL HOURS				
26Oct2015	Rep Rtn	49-91-00b			???????	?????:??	???????	32674 APU CYCLES 25401.00 APU DECIMAL HOURS				
26Oct2015	Rep Rtn	49-41-03			???????	?????:??	???????	32674 APU CYCLES 25401.00 APU DECIMAL HOURS				

Component History

Date	Movement Type	Details	Tech Log	Batch No	Unit Days	Unit Hours	Unit Landings	Unit NSBL	Owner Days	Owner Hours	Owner Landings	Owner NSBL
26Oct2015	Rep Rtn	49-31-04b			???????	?????:??	???????	32674 APU CYCLES 25401.00 APU DECIMAL HOURS				
28Dec2012	Fit To - Take On	G-CISK/49200001/001/3.13			0	25349:18	32616	24894 APU CYCLES 19055.30 APU DECIMAL HOURS	3965	28702:18	25934	0 APU CYCLES 0.00 APU DECIMAL HOURS
04Oct2012	ADSB Controlled	AD-2004-24-03-FAA/Para 1 TERMINATING ACTION BY INSTALLATION OF A FUEL FILTER ASSEMBLY NOT LISTED ON AD.			???????	?????:??	???????	24894 APU CYCLES 19055.00 APU DECIMAL HOURS				
04Oct2012	Rep Rtn	SIL APS 500-49-518	HAMILTON SUNDSTRAND/		???????	25349:18	32616	24894 APU CYCLES 19055.18 APU DECIMAL HOURS				
04Oct2012	Rep Rtn	49-31-04b	HAMILTON SUNDSTRAND/		???????	25349:18	32616	24894 APU CYCLES 19055.30 APU DECIMAL HOURS				
04Oct2012	Rep Rtn	49-91-01	HAMILTON SUNDSTRAND/		???????	25349:18	32616	24894 APU CYCLES 19055.30 APU DECIMAL HOURS				
04Oct2012	Rep Rtn	49-41-03	HAMILTON SUNDSTRAND/		???????	25349:18	32616	24894 APU CYCLES 19055.30 APU DECIMAL HOURS				
04Oct2012	Rep Rtn	REPAIRED			???????	25349:18	32616					
12Dec2001	Rep Rtn	FAA 2002-15-02	P.N. NEVER FITTED/		0	0:00	0	0 APU CYCLES 0.00 APU DECIMAL HOURS				



Schiphol House,
Humberside Airport,
Kirmington, DN39 6YH
Switchboard: 08703 669669
Fax: 01652 688222

04 OCT 2021
Our Ref: NIL-62-21

To whom it may concern

Non Incident Letter

PN M4504113A, SN SP-E0114217

On behalf of Eastern Airways, I hereby confirm that, **PN M4504113A, SN SP-E0114217**, removed from aircraft E145, Registration: G-CISK, MSN: 145570 has not been:

Involved in any incident or accident as defined in ICAO Annex 13

Or

Used for any military or government purposes

The above statement is valid whilst the above has been in service with Eastern Airways, from 28th of December 2012, until 03rd of October 2021.

Yours sincerely,

Gabriel Tecsan | Technical Services Engineer | Eastern Airways

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