

C&L Aerospace

APU Model: T-62T-40C14

Aircraft: ERJ-145

APU P/N: M4504113A

LSV Date for Refurbishment: *May 2021



TSN: 17600

TSLR: 0

CSN: 29248

CSLR: 0

LSV Date: *May 2021

T-62T-40C14 S/N SP-E0014016

SUMMARY:

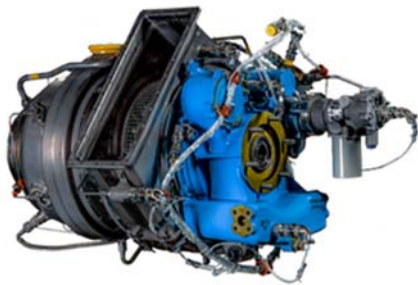
This APU was last repaired May 22nd 2012 by Hamilton Sundstrand Power Systems and operated 3580 hours / 6240 cycles before being removed for maintenance convenience. *It is currently inducted to Next MRO for inspection/test or repair if necessary with an ECD of May 2021 and will be released with an EASA Dual Release. 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	3580	6240	15000	8760
Compressor Wheel	4504253	3580	6240	On Condition	N/A

LRU ACCESSORIES:

ITEM	P/N	TSN
Fuel Solenoid Valve	4952316-2	UNK
Servo Control Bleed Air Valve	4952829	UNK
Anti-Surge Valve	4950899	UNK
Low Oil Pressure Switch	4952366	UNK
High Oil Temperature Switch	4952397-1	UNK
Speed Sensor Assy	4504185C	UNK
Secondary Fuel Manifold	4951610	3580
Ignitors	4952382	3580
Engine Control Harness	4504230B	UNK
Fuel Control Assy	4504616A	UNK
Flow Divider	4951486	UNK
Fuel Filter	4952505	UNK
Ignition Exciter	4950745	UNK
Data Memory Module	4505576	UNK
Air/Oil Cooler	4950929	UNK
Ambient Pressure	4504196A	UNK



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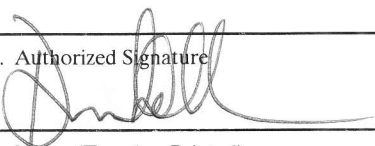
SB EMBODIMENT:

SB NUMBER	SB DESCRIPTION	C/W DATE
4504112-49-1	Fuel filter cap assy replacement	1/4/2003
4504112-49-5	Intro. of engine control harness assy	1/4/2003
4504112-49-6	Intro. of fuel control assy	1/4/2003
4504112-49-8	Intro. of quill shaft PN 4504407A	1/4/2003
4504112-49-10	Intro. of servo controlled bleed valve	1/4/2003
4504112-49-11	New engine configuration	11/3/2006
4504112-49-15R1	Intro. of reinforced drain lines	12/26/2003
4504112-49-19	Improved servo controlled bleed air valve	12/26/2003
4504112-49-20	Intro. of improved hot switch	12/26/2003
4504112-49-21	AI housing with rounded bosses	11/3/2006
4504112-49-22R3	Fuel filter assy replacement	5/22/2012
4504112-49-24	Larger mod. plate	11/3/2006
4504112-49-27	Add shims, cold start bypass valve	11/3/2006
4504112-49-29	Improved combustor housing	11/3/2006
4504112-49-30	AI hsg w/ improved shroud coat	11/3/2006
4504112-49-32	Improved speed sensor	11/3/2006

***Note:**

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 Technical Support Manager
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 40 Wyoming Ave.
 Bangor, ME 04401

1. Approving National Aviation Authority/Country UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number 5350472 1.000	
4. Organization Power Systems Hamilton Sundstrand Division United Technologies Corporation 4400 Ruffin Road San Diego, California 92123 LI3R658L				5. Work Order, Contract, or Invoice No. W.O. 7069602 Cust. P.O.			
6. Item	7. Description	8. Part Number	9. Eligibility*	10. Qty	11. Serial/Batch No.	12. Status/Work	
1	OUTLINE, ENGINE T-40C14APU-MOD	M4504113A	N/A	1	SP-E0014016	REPAIRED	
13. Remarks This Auxiliary Power Unit has been repaired, modified, tested and inspected in accordance with HSPS manuals. Pertinent details of the work performed are on file at this repair station under the work order number shown in section five of this form. Reference: Hamilton Sundstrand APS500R Engine Manual T40C14-1 Revision 8, T40C14-2 Revision 6 & T40C14-3 Revision 8. Service Bulletin Incorporated:4504112-49-22 R3. TSN:14020 CSN:23008 The fuel filter, oil filter and igniters were replaced. The air/oil cooler was externally cleaned. This auxiliary power unit is in compliance with A.D. 2004-24-03 and SIL518. TT 14020.00 TSR 0.00 TCSN 23008.00 TCSR 0.00							
Pertinent detail of the workscope identified in Block 12 are on file at this repair station under work order no. <u>7069602</u> Work performed by Repair Station LI3R658L							
Certifies that the work specified in Blocks 12/13 was carried out in accordance with EASA Part 145, and with respect to that work, the component is considered ready for release to service under EASA Part 145 Approval Number: EASA 145-4903.							
14. 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 13.				19. ☒ 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. Signature		16. FAA Authorization No.:		20. Authorized Signature		21. Certificate Number:	
						LI3R658L	
17. Name (Typed or Printed):		18. Date (m d y):		22. Name (Typed or Printed)		23. Date (m d y):	
				Keller, Dave		May 22 2012	
FAA Form 8130-3				* Optional installer must cross check eligibility with applicable technical data			
FAA FORM 8130-3		User/Installer Responsibilities		Airworthiness Approval Tag			
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.							

TCC 194339



HS POWER SYSTEM REPAIR SAN DIEGO
4400 RUFFIN RD
SAN DIEGO, CA, 92123-1606, USA

SHOP FINDINGS REPORT

Date Printed: 22 / May / 2012
Page: 1 of 5
HS ORDER: 5350472 SO
HS LINE: 1.000

Certificate # CAAC.F00100107 EASA.145.4903 FAA # L13R658L

End Assembly Item OUTLINE, ENGINE T-40C14APU-MOD P/N: M4504113A S/N: SP-E0014016

Customer Name: AMERICAN EAGLE AIRLINES
PO #: 40567271
Receive Date: 04/12/12
TAT Days (less holds): 27

Unit Information:

	<u>Incoming</u>	<u>Outgoing</u>
OEM Part Number:	M4504113A	M4504113A
OEM Serial Number:	SP-E0014016	SP-E0014016
Part Description :	OUTLINE, ENGINE	OUTLINE, ENGINE T-40C14APU-MOD
Model:	40C14-APU 55820	40C14-APU 55820
A/C Tail #:	N803AE	
Removal Date:	03/29/12	
Sched/Unsched:	Unscheduled	
TT:	14020.00	14020.00
TSR:	5011.00	0.00
TCSN:	23008.00	23008.00
TCSR:	13716.00	0.00
Configuration In:	MODS: 49-1,10,13,5,6,8,15,19,20,22,11,21,24,27,29,30,32,34. DMM READS: 14020.7 HOURS; 23008 STARTS.	

Customer Stated Reason for Removal:

DAMAGED BLADES

Finding During This Shop Visit:**Incoming Visual Inspection:**

ROTOR SEIZED. TURBINE WHEEL RIM FAILURE.
PHENOLIC MATERIAL IN SYTEM.

Primary Failure:

ROTOR ASSEMBLY TURBINE WHEEL RIM AT SCALLOPS FRACTURED & RELEASED . FIG. 1

Other Failures:

LRU AIR/OIL COOLER INTERNAL OIL PASSAGES CONTAMINATED WITH PHENOLIC DEBRIS .
GEARBOX ASSEMBLY INTERMEDIATE GEAR DUPLEX THRUST BEARING NON-METALLIC CAGE FRACTURED . FIG. 9
COMBUSTOR ASSY COMBUSTION LINER INNER PANEL HEATSHIELD EXPANSION HOLES CRACKED .
ROTOR ASSEMBLY SEAL SEGMENTS FACE IMPACT . FIG. 3
GEARBOX ASSEMBLY GBOX HOUSING OIL PASSAGES CONTAMINATED WITH PHENOLIC DEBRIS .
LRU START BYPASS (ANTI-SURGE) VALVE INTERNAL COMPONENTS BROKEN .
LRU ELECTRICAL HARNESS THERMOCOUPLE OPEN CIRCUIT .
COMBUSTOR ASSY COMBUSTION LINER OUTER PANEL DISTORTED . LBO at ATP.
ROTOR ASSEMBLY COMPRESSOR IMPELLER BLADE CONTOURS RUBBED . FIG. 2
TURBINE ASSY AIR INLET HOUSING LABYRINTH SEAL ABRADABLE DAMAGED . FIG. 4
TURBINE ASSY AIR INLET HOUSING SHROUD CONTOUR ABRADABLE RUBBED . FIG. 5
TURBINE ASSY DIFFUSER SEAL PLATE MATING SURFACE FRACTURED . FIG. 6
TURBINE ASSY TURBINE NOZZLE CONTOUR RUB . FIG. 8
TURBINE ASSY TURBINE NOZZLE SEAL PLATE MATING SURFACE BATTERED . FIG. 7
TURBINE ASSY TURBINE NOZZLE VANE TRAILING EDGES IMPACT DAMAGE . FIG. 8

Discussion

FINAL REPORT

THE PREVIOUS SHOP VISIT FOR THIS APU OCCURRED ON 4/26/07
FOR A FLOW DIVIDER PROBLEM.

THIS REMOVAL DUE TO A LOGBOOK ENTRY STATING "FAILURE /

WARNING - EAR STATEMENT

This document or file contains technical data the export of which is, or may be restricted by the Export Administration Act and the Export Administration Regulations (EAR), 15.C.F.R. parts 730-774. Diversion contrary to U.S. law is prohibited. The export, re-export, transfer or re-transfer of this technical data to any other company, entity, person, or destination, or for any use or purpose other than that for which the technical data was originally provided by Hamilton Sundstrand, is prohibited without prior written approval from Hamilton Sundstrand and authorization under applicable export control laws.

EAR Export Classification: ECCN 9E991



HS POWER SYSTEM REPAIR SAN DIEGO
4400 RUFFIN RD
SAN DIEGO, CA, 92123-1606, USA

SHOP FINDINGS REPORT

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Certificate # CAAC.F00100107 EASA.145.4903 FAA # LI3R658L

Discussion (continued)

DAMAGED" HAS BEEN ATTRIBUTED TO THE FRACTURE AND RELEASE OF ONE TURBINE BLADE. THE RELEASE OF THE BLADE WAS DUE TO A RIM FAILURE CAUSE BY CYCLE FATIGUE. THIS EVENT RESULTED IN SECONDARY DAMAGE TO THE AIR INLET HOUSING, IMPELLER, SEAL SEGMENTS, AND TURBINE NOZZLE.

Justified Removal: Yes
Removal Reason Verified: Yes
Induced Failure: No
Disposition: REPAIRED

Cause and Corrective Action / Certificate

This Auxiliary Power Unit has been repaired, modified, tested and inspected in accordance with HSPS manuals. Pertinent details of the work performed are on file at this repair station under the work order number shown in section five of this form.

Reference: Hamilton Sundstrand APS500R Engine Manual
T40C14-1 Revision 8, T40C14-2 Revision 6 & T40C14-3
Revision 8.

Service Bulletin Incorporated:4504112-49-22 R3.

TSN:14020 CSN:23008

The fuel filter, oil filter and igniters were replaced.
The air/oil cooler was externally cleaned. This auxiliary power unit is in compliance with A.D. 2004-24-03 and SIL518.

Labor Performed this Visit:

Item	Description
LEVEL 1	Refurbish Powerhead & GB
-SB ASB-4504112-49-22 R3	FUEL FILTER ASSY REPLACEMENT

Parts Replaced This Visit:

Qty	Part Number	Description	Reason Replaced	Condition*
2	169457	BEARING BALL	Expendable Parts	
1	169459	BEARING BALL	Expendable Parts	
1	25498	GUIDE	Broken/Cracked/Damaged	
1	4502042	BEARING, BALL-THRUST	Expendable Parts	
2	4502104	SPACER SHAFT	Modification	
1	4504117B	HSG, AIR INLET	Broken/Cracked/Damaged	R
1	4504230B	HARNESS ASSY, ENGINE CONTROL	Broken/Cracked/Damaged	R
1	4504257A	ROTOR ASSEMBLY	Broken/Cracked/Damaged	
1	4504261	PUMP, OIL LUB	Functionally Inoper/Discrepant	
1	4504360B	HOUSING ASSY, MATCHED SET	Functionally Inoper/Discrepant	R
3	4504362	SFT STAR GEAR	Missing	
1	4504383	LINER ASSY COMBUSTOR-INSEPERAB	Investigation	R
1	4504407A	SHAFT QUILL	Broken/Cracked/Damaged	
1	4504583	SCREEN ASSY, AIR INLET-INSEPER	Broken/Cracked/Damaged	

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SAN DIEGO, CA, 92123-1606, USA

SHOP FINDINGS REPORT

Date Printed: 22 / May / 2012
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Certificate # CAAC.F00100107 EASA.145.4903 FAA # LI3R658L

Qty	Part Number	Description	Reason Replacement	Condition*
1	4504616A	FUEL CONTROL ASSEMBLY	Broken/Cracked/Damaged	R
1	4504726	TUBE ASSEMBLY, FUEL-CONTROL TO	Broken/Cracked/Damaged	
1	4504727	TUBE ASSEMBLY, FUEL-FILTER TO	Broken/Cracked/Damaged	
2	4504761	SPACER RING	Functionally Inoper/Discrepant	
1	4504806	TUBE ASSY, VENT-SEAL VENT TO E	Broken/Cracked/Damaged	
1	4505387B	HOUSING ASSY, COMBUSTOR-INSEPE	Broken/Cracked/Damaged	R
1	4505479	NOZZLE, TURBINE	Broken/Cracked/Damaged	
1	4505664	TUBE ASSY (.250 OD), FUEL-SOLE	Broken/Cracked/Damaged	
1	4507965	DIFFUSER, COMPRESSOR	Broken/Cracked/Damaged	
1	4950899	VALVE, ANTI-SURGE	Functionally Inoper/Discrepant	R
1	4950929	COOLER AIR/OIL	Contaminated	R
1	4951014	ELEMENT, FILTER-DIRT ALERT	Expendable Parts	
1	4951476	BEARING, BALL	Expendable Parts	
1	4951476	BEARING, BALL	Expendable Parts	
1	4951477	BEARING, BALL	Expendable Parts	
1	4951489	VALVE RELIEF	Normal Wear or Deterioration	
1	4951489	VALVE RELIEF	Functionally Inoper/Discrepant	
6	4951501	BEARING, BALL	Expendable Parts	
1	4951506	BEARING, ROLLER	Expendable Parts	
1	4951542	ELEMENT OIL FILTER	Expendable Parts	
1	4951587	MATING RING	Expendable Parts	
1	4951610	MANIFOLD ASSEMBLY-SECONDARY FU	Broken/Cracked/Damaged	
1	4951969	SEAL ASSEMBLY, GENERATOR OUTPU	Broken/Cracked/Damaged	
6	4952028	GASKET, FUEL INJECTOR	Expendable Parts	
6	4952028	GASKET, FUEL INJECTOR	Expendable Parts	
2	4952382	IGNITOR	Expendable Parts	
1	4952505	FILTER ASSEMBLY, FUEL	Modification	
1	4952902	SHIELD, OIL-PUMP SEAL	Modification	

*Condition: Blank = New, R = Rotables, S = Serviceable, C = Consignment, D = Airworthy

Tracked Part InformationIncomingOutgoing

OEM Part Number: 4504185C
OEM Serial Number: 092039
Part Description : SPEED SENSOR ASSY, DUAL HALL E
TSI: N/A

4504185C
092039
SPEED SENSOR ASSY, DUAL HALL E

OEM Part Number: 4504196A
OEM Serial Number: 00-12-038
Part Description : AMBIENT PRESSURE(UNAMPLIFIED) &
TSI: N/A

4504196A
00-12-038
AMBIENT PRESSURE(UNAMPLIFIED) &

OEM Part Number: 4504230A
OEM Serial Number: V14-S229
Part Description : HARNESS ASSY, ENGINE CONTROL

4504230B
V28-S322
HARNESS ASSY, ENGINE CONTROL

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Tracked Part Information (continued) Incoming**Outgoing**

TSI: N/A

OEM Part Number: 4504253
OEM Serial Number: V42-C4633
Part Description : IMP ASSY T40C14
TT: 5538.00
TSI: N/A
TCSN: 14674.004504253
SIF1385
IMP ASSY T40C14
0.00

0.00OEM Part Number: 4504616A
OEM Serial Number: 09-03-115
Part Description : FUEL CONTROL ASSEMBLY
TSI: N/A4504616A
10-01-180
FUEL CONTROL ASSEMBLYOEM Part Number: 4504847
OEM Serial Number: HD529
Part Description : WHEEL, TURBINE
TT: 5538.00
TSI: N/A
TCSN: 14674.004504847
HH623
WHEEL, TURBINE
0.00

0.00OEM Part Number: 4505576
OEM Serial Number: 0415
Part Description : DATA MEMORY MODULE ASSEMBLY
TSI: N/A4505576
0415
DATA MEMORY MODULE ASSEMBLYOEM Part Number: 4950745
OEM Serial Number: 06528829
Part Description : EXCITER, IGNITION
TSI: N/A4950745
06528829
EXCITER, IGNITIONOEM Part Number: 4950899
OEM Serial Number: 1331
Part Description : VALVE, ANTI-SURGE
TSI: N/A4950899
1209
VALVE, ANTI-SURGEOEM Part Number: 4950929
OEM Serial Number: 717981-07
Part Description : COOLER AIR/OIL
TSI: N/A4950929
779575-007
COOLER AIR/OILOEM Part Number: 4951486
OEM Serial Number: 0526
Part Description : FLOW DIVIDER4951486
0526
FLOW DIVIDER**EAR DATA – Subject to the export control
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HS LINE: 1.000

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Tracked Part Information (continued) Incoming

TSI: N/A

OEM Part Number: 4951960
OEM Serial Number: C0042R60500
Part Description : FILTER ASSY, FUEL
TSI: N/A

OEM Part Number: 4952316-2
OEM Serial Number: 1431
Part Description : VALVE, SOLENOID-FUEL
TSI: N/A

OEM Part Number: 4952366
OEM Serial Number: 491
Part Description : SWITCH, LOW OIL PRESSURE
TSI: N/A

OEM Part Number: 4952397-1
OEM Serial Number: 0053
Part Description : SWITCH, HIGH OIL TEMPERATURE
TSI: N/A

OEM Part Number: 4952829
OEM Serial Number: 1009
Part Description : VALVE, BLEED AIR-SERVO CONTROL
TSI: N/A

Outgoing

4952505
C1339
FILTER ASSEMBLY, FUEL

4952316-2
1431
VALVE, SOLENOID-FUEL

4952366
491
SWITCH, LOW OIL PRESSURE

4952397-1
0053
SWITCH, HIGH OIL TEMPERATURE

4952829
1009
VALVE, BLEED AIR-SERVO CONTROL

EARDATA - Subject to the export control restrictions on the first page of this document or file.

Last HS Return Data:

Sales Order:	3871994	SO	Work Performed:	Repaired & Tested
Date Received:	04/17/07		Date Shipped:	04/26/07
Reason For Removal:	APU FAILED		Days Since Last Visit:	1,862

Service Bulletins Incorporated/Work Performed on Previous Visits:

Facility	Description	Item	Shop Date
San Diego	NEW ENGINE CONFIGURATION	-SB 4504112-49-11	11/03/06
San Diego	AI HOUSING WITH ROUNDED BOSSES	-SB 4504112-49-21	11/03/06
San Diego	LARGER MOD. PLATE	-SB 4504112-49-24	11/03/06
San Diego	ADD SHIMS, COLD START BYPASS V	-SB 4504112-49-27	11/03/06
San Diego	IMPROVED COMBUSTOR HOUSING	-SB 4504112-49-29	11/03/06
San Diego	AI HSG W/ IMPROVED SHROUD COAT	-SB 4504112-49-30	11/03/06
San Diego	IMPROVED SPEED SENSOR	-SB 4504112-49-32	11/03/06

There are photographs or other technical information related to this findings report that may be viewed on our repair status web site at www.hsrepair.com.

If there are any questions or comments about this report please contact your customer account representative.

Customer: American Eagle Airlines
Serial: SP-E0014016
TTSN: 14020 TSR: 5011
TCSN: 23008 CSR: 13716



Hamilton Sundstrand

A United Technologies Company

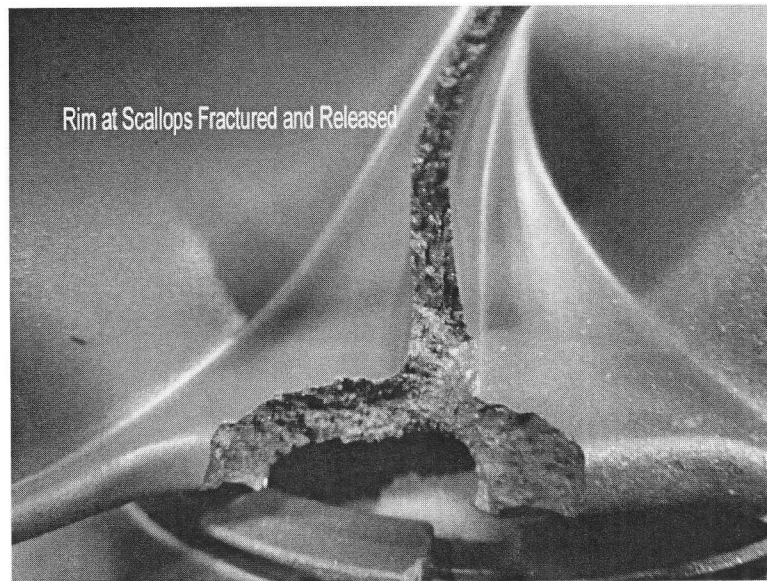


Figure 1. Turbine Wheel Distress

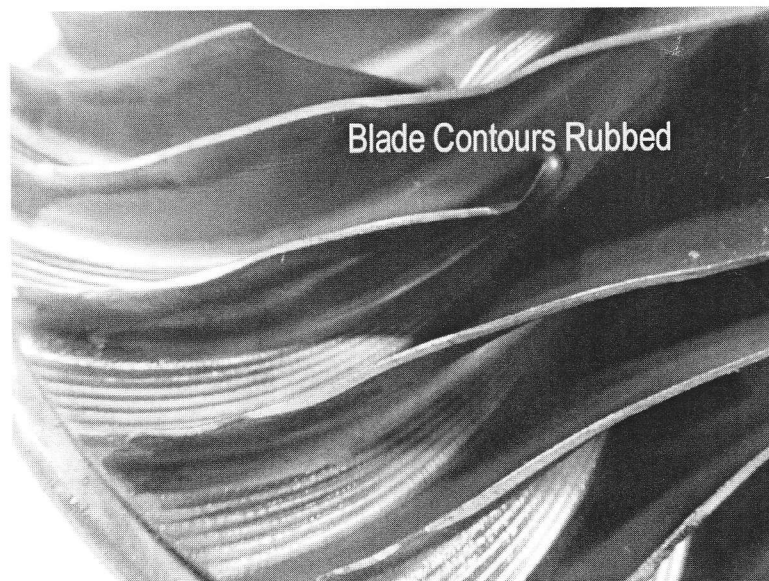


Figure 2. Impeller Damage

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Customer: American Eagle Airlines
Serial: SP-E0014016
TTSN: 14020 TSR: 5011
TCSN: 23008 CSR: 13716



Hamilton Sundstrand

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Figure 3. Seal Segment Damage

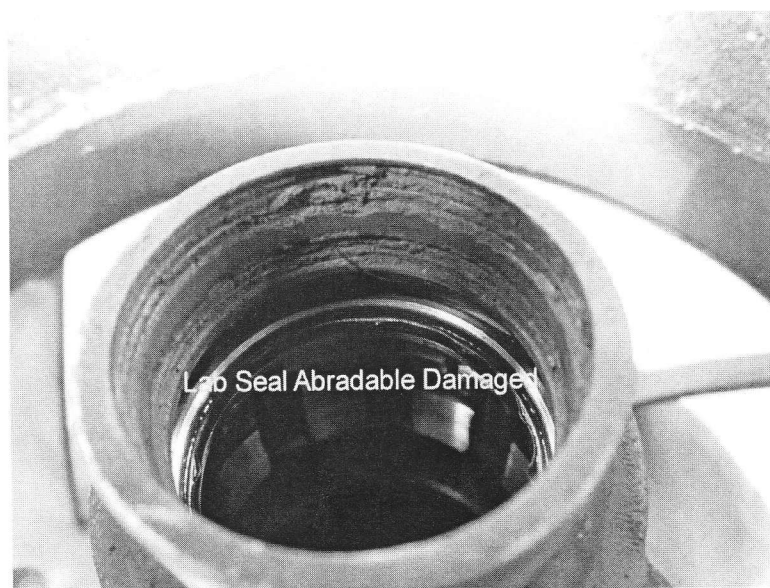


Figure 4. Air Inlet Housing Damage

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Customer: American Eagle Airlines
Serial: SP-E0014016
TTSN: 14020 TSR: 5011
TCSN: 23008 CSR: 13716



Hamilton Sundstrand

A United Technologies Company



Figure 5. Air Inlet Housing Damage

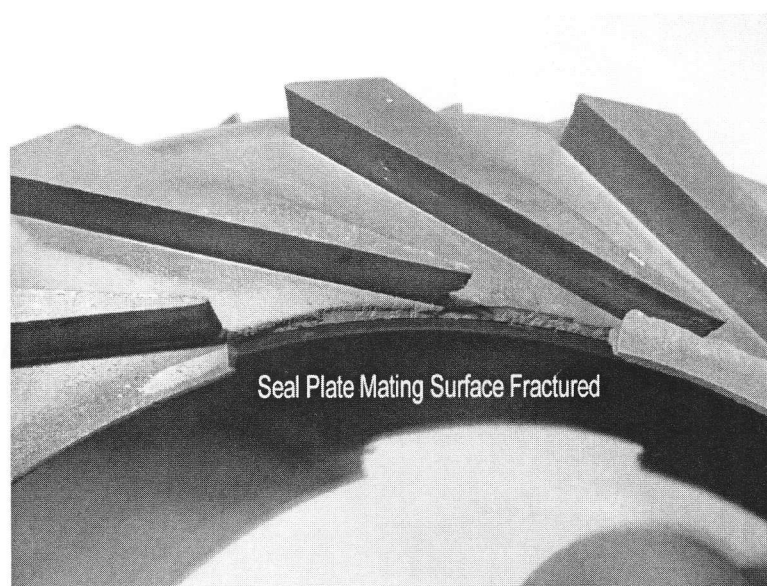


Figure 6. Diffuser Damage

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Customer: American Eagle Airlines
Serial: SP-E0014016
TTSN: 14020 TSR: 5011
TCSN: 23008 CSR: 13716



Hamilton Sundstrand

A United Technologies Company

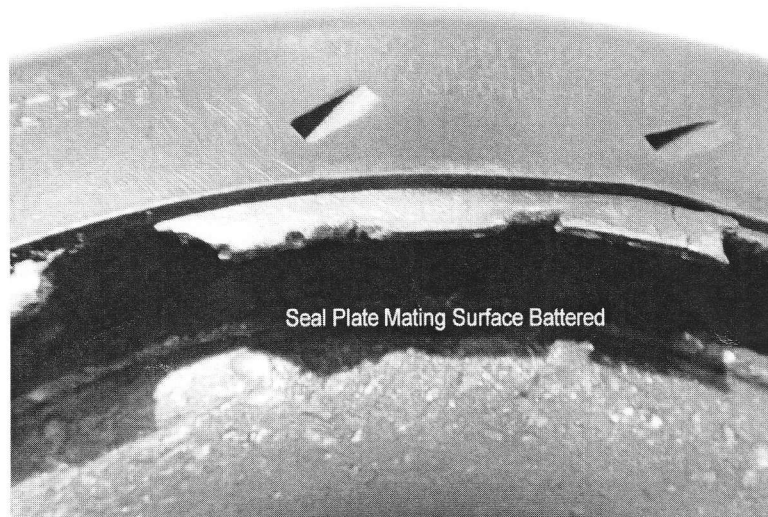


Figure 7. Turbine Nozzle Damage

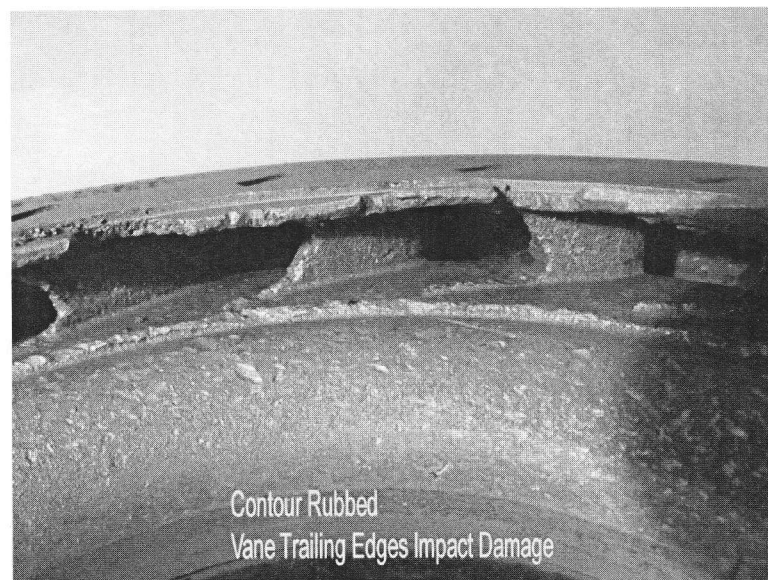


Figure 8. Turbine Nozzle Damage

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Customer: American Eagle Airlines
Serial: SP-E0014016
TTSN: 14020 TSR: 5011
TCSN: 23008 CSR: 13716



Hamilton Sundstrand

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Figure 9. Duplex Thrust Bearing Distress

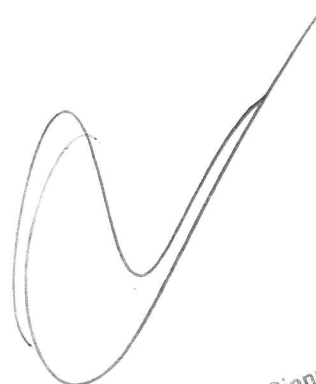
EAR DATA – Subject to the export control restrictions on the first page of this document or file.

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-E0014016	14020.00	23008	5011.00	13716	S/O: 5350472 PO: 40567271	M4504113A	SP-E0014016	14020.00	23008	0.00	0
4504253	V42-C4633	5538.00	14674	N/A	N/A	IMP ASSY T40C14	4504253	SIF1385	0.00	0	N/A	N/A
4504847	HD529	5538.00	14674	N/A	N/A	WHEEL, TURBINE	4504847	HH623	0.00	0	N/A	N/A
4504185C	092039	N/A	N/A	N/A	N/A	SPEED SENSOR ASSY, DUAL HALL E	4504185C	092039	N/A	N/A	N/A	N/A
4504196A	00-12-038	N/A	N/A	N/A	N/A	AMBIENT PRESSURE(UNAMPLIFIED) &	4504196A	00-12-038	N/A	N/A	N/A	N/A
4504230A	V14-S229	N/A	N/A	N/A	N/A	HARNESS ASSY, ENGINE CONTROL	4504230B	V28-S322	N/A	N/A	N/A	N/A
4504616A	09-03-115	N/A	N/A	N/A	N/A	FUEL CONTROL ASSEMBLY	4504616A	10-01-180	N/A	N/A	N/A	N/A
4505576	0415	N/A	N/A	N/A	N/A	DATA MEMORY MODULE ASSEMBLY	4505576	0415	N/A	N/A	N/A	N/A
4950745	06528829	N/A	N/A	N/A	N/A	EXCITER, IGNITION	4950745	06528829	N/A	N/A	N/A	N/A
4950899	1331	N/A	N/A	N/A	N/A	VALVE, ANTI-SURGE	4950899	1209	N/A	N/A	N/A	N/A
4950929	717981-07	N/A	N/A	N/A	N/A	COOLER AIR/OIL	4950929	779575-007	N/A	N/A	N/A	N/A
4951486	0526	N/A	N/A	N/A	N/A	FLOW DIVIDER	4951486	0526	N/A	N/A	N/A	N/A
4951960	C0042R60500	N/A	N/A	N/A	N/A	FILTER ASSY, FUEL	4952505	C1339	N/A	N/A	N/A	N/A
4952316-2	1431	N/A	N/A	N/A	N/A	VALVE, SOLENOID-FUEL	4952316-2	1431	N/A	N/A	N/A	N/A
4952366	491	N/A	N/A	N/A	N/A	SWITCH, LOW OIL PRESSURE	4952366	491	N/A	N/A	N/A	N/A
4952397-1	0053	N/A	N/A	N/A	N/A	SWITCH, HIGH OIL TEMPERATURE	4952397-1	0053	N/A	N/A	N/A	N/A
4952829	1009	N/A	N/A	N/A	N/A	VALVE, BLEED AIR-SERVO CONTROL	4952829	1009	N/A	N/A	N/A	N/A

**EAR DATA – Subject to the export control
restrictions on the first page of this document
or file.**

A/C S/N	A/C Registration	Description	Part Number	Serial Number	TSN	CSN	TSI	CSI	Inst-Date	Remaining Cycles	Turbine Wheel Cycles at Installation on APU	APU Cycles at Installation on A/C
145089	N189EC	APU , ENGINE ASSEMBLY	M4504113A	SPE0014016	15331	24.772	46	91	13/mai/13	N/A	N/A	24681
		TURBINE WHEEL	4504847	HH623	1265	1671	1311	1762	22/mai/12	13238	0	N/A


 Cláudio Rogério Giannazi
 Asset Technical Engineer
 13/Oct / 2014



TARJETA DE CONDICION DE COMPONENTE

Serviceable / Unserviceable Unit Identification Tag

N° 4066

CLAVE Code F-GAC-19

AEROLITORAL, S.A. DE C.V. TALLER DGAC-122

UNIDAD UTIL / Serviceable Assembly

1. DESCRIPCION / Description **APU**
2. P/N **M450413A** 3. S/N **SP-E004016** 4. O.T. W.O.

SUB-COMPONENTES / Sub-assemblies

5. DESCRIPCION / Description 6. P/N
7. S/N 8. FECHA DE VENCIMIENTO / Due Date 8. FECHA DE MANUFACTURA / DOM
10. DESCRIPCION / Description 11. P/N
12. S/N 13. FECHA DE VENCIMIENTO / Due Date 14. FECHA DE MANUFACTURA / DOM
15. INVENTARIO ADJUNTO / Inventory Attached SI / YES ☐ NO ☐

16. REPARACION EFECTUADA / Last Shop Visit

REP. MAYOR Overhauled/ Restore REP. PARCIAL Repaired REVISION Review PBA. FUNCIONAL Functional Test ☐
LIMPIEZA Clean NUEVA New OTRO / (ESPECIFIQUE) Other **canibalizada**

17. TSN/CSN 18. TSO/CSO 19. TSR/CSR

20. REPARO / REMOVIDO Repaired / Removed **Quilbrino E. G.** 21. LICENCIA / Certificate **200205278** 22. FIRMA / Signature
22. VENCIMIENTO EN ALMACENAJE / Shelf Life Due 21. FECHA / Date **11/May/13**

INFORMACION DE UNIDAD CANIBALIZADA

Canibalized Part Information

25. AERONAVE / MOTOR Aircraft / Engine **XA-XLT** 26. POSICION / Position **Unica**
27. FOLIO DE BITACORA / Log Book Page Number **32870** 28. INSPECTOR / SUPERVISOR **A. Herrera** 30. FECHA / Date **11/May/13**

REVISION 4 15-Mar-10

*ESTA UNIDAD HA SIDO INSPECCIONADA Y SE DECLARA COMO AERONAVEGABLE Y ES APROBADO SU REGRESO A SERVICIO / This part was inspected and determined airworthy approved to return to service.

INSTALACION / Installation

31. TECHNICAL LOG (TL) 32. FOLIO DE BITACORA Log Book Number **31805**
33. AERONAVE / Aircraft **XA-OLT** 34. ESTACION / Station **Mexico**

35. MOTOR / Engine 36. FECHA / Date **13 May 2013** 37. POSICION / Position **OLY.**

38. TECNICO / Technician

NOMBRE / Name **H. Marquez** NOMBRE / Name **A. Ramirez**

LICENCIA / Certificate **200200178** LICENCIA / Certificate **200111911**

FIRMA / Signature **[Signature]** FIRMA / Signature **[Signature]**

UNIDAD REMOVIDA / Part Removed

40. P/N **UNIDAD 10** 41. S/N **INSTALADA**
SUBCOMPONENTES REMOVIDOS / Sub-assemblies Removed

42. DESCRIPCION 43. P/N 44. S/N

45. DESCRIPCION 46. P/N 47. S/N

48. MOTIVO DE REMOCION / Reason for Removal

FALLA / Failure ☐ ANALISIS DE FALLA / Troubleshooting ☐ OTRO / Other ☒
PROGRAMADO / Scheduled ☐ MODIFICACION / Modification ☐

49. DESCRIPCION MOTIVO DE REMOCION / Reason for Removal Description

UNIDAD NO INSTALADA.

Copia Verde (1) Enviar al Departamento de Control de Registros junto con la Tarjeta del Taller Reparador. La Copia Amarilla (2) para el Archivo de Mantenimiento. Copia de Cartón (3) Regresar con la Unidad Removida al Almacén. Green Copy (1) Send to Records Control Department attached with Repair Station Tag, Yellow Copy (2) Maintenance File, Cardboard (3) Return to Warehouse attached to unit removed.

 AEROLITORAL S.A. DE C.V. TALLER DGAC No. 122	ORDEN DE TRABAJO Work Order		CODIGO: F-GIN-01
			Code
			FECHA DE EMISIÓN: Abril 15, 2001
			Issue Date
			FECHA DE REVISIÓN: Julio 5, 2012
			Revision Date
			NÚMERO DE REVISIÓN : 4
			Revision Number

Fecha: 06 May 2013 **Marca/Modelo:** EMB-145 **Matrícula:** XA-OLI **Número de Serie:** 145089
(Date) (Manufacturer/Model) (Tail Number) (Serial Number)

Número de Parte: SP-E0314545 **N/P Instalada:**
(Part Number) (P/N On)
Número de Serie: SP-E0314545 **N/S Instalada:**
(Serial Number) (S/N On)
Descripción: **Folio Bitácora de Mantenimiento:** 31805
(Description) (Issue Sheet #)
Código ATA:
(ATA Code)

Trabajo de mantenimiento a efectuar:
(Maintenance to be performed) Remove APU

Acción Correctiva:
(Corrective Action)

Was removed APU
IAW AMM 49-14-01

Fecha de Aplicación: 10-May-2013 **Estación:** MEX
(Accomplish Date) (Station)

Nombre del Técnico: R. Santiago **No. Licencia:** 200702616 **Firma:** [Signature]
(Mechanic's Name) (Certificate) (Signature)

Fecha de Inspección: 10-MAY-2013 **Estación:** MEX
(Inspection Date) (Station)

Nombre del Inspector: M. Alvarado **No. Licencia:** 200300307 **Firma / Sello:** [Signature]
(Inspector's Name) (Certificate) (Signature/Stamp)

Note: Adjuntar tarjeta de condición, servicio y/o demás documentos aplicables / **Note:** Enclose to this form, all documents that support the work performed.

Nota: El personal de Inspección deberá siempre plasmar su sello en las Órdenes de Trabajo / **Note:** Inspectors always should put their stamp in Work Orders



AEROLITORAL S.A. DE C.V.
TALLER DGAC No. 122

ORDEN DE TRABAJO Work Order

CODIGO: F-GIN-01
Code
FECHA DE EMISIÓN: Abril 15, 2001
Issue Date
FECHA DE EMISIÓN: Julio 5, 2012
Issue Date
NÚMERO DE REVISIÓN: 4
Revision Number

Fecha: 06-May-2013 (Date) Marca/Modelo: (Manufacturer/Model) EMB-145 EMB-170 EMB-190 Matrícula: XA-OLI (Tail Number) Número de Serie: 145089 (Serial Number)

Número de Parte: (Part Number) N/P Instalada: (P/N On)
Número de Serie: SP-E014545 (Serial Number) N/S Instalada: (S/N On)
Descripción: (Description) Folio Bitácora de Mantenimiento: 31805 (Issue Sheet #)
Código ATA: (ATA Code)

Trabajo de mantenimiento a efectuar: APU Installation
(Maintenance to be performed)

Acción Correctiva:
(Corrective Action)

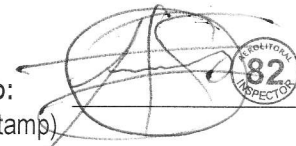
INSTALACION APU I.A.W. A.M.M. 79-14-01-4.

Fecha de Aplicación: May 13th/2013 (Accomplish Date) Estación: Mexico (Station)

Nombre del Técnico: H. Marquez (Mechanic's Name) No. Licencia: 200700178 (Certificate) Firma: (Signature)

Fecha de Inspección: 13-Mayo-2013 (Inspection Date) Estación: Mex (Station)

Nombre del Inspector: A. Ramirez (Inspector's Name) No. Licencia: 200111917 (Certificate) Firma / Sello: (Signature/Stamp)



Note: Adjuntar tarjeta de condición, servicio y/o demás documentos aplicables / Note: Enclose to this form, all documents that support the work performed.

Nota: El personal de Inspección deberá siempre plasmar su sello en las Órdenes de Trabajo / Note: Inspectors always should put their stamp in Work Orders

Summary of APU Maintenance Status

APU Model : **T-62T-40C14**

APU Part No: **M4504113A**

APU Serial No. **SP-E0014016**

Date		Task Performed
19-Sep-17		Aircraft Stopped Operation
From	27-Sep-17	Performed Aircraft 7 Days Period Storage Procedure Including Engine and APU Run Up and Check. (Complied with 7 Days Interval)
To	27-Sep-18	
1-Oct-18		Removed APU from the Aircraft (MSN 145089). (Ref: W/O No. AML 0918-STG002)
3-Oct-18		Performed Cleaning of APU. (Ref: W/O No. AML 0918-STG002)
5-Oct-18		Performed Verification for APU Inventory Components Part No & Serial No. (Ref: W/O No. AML 0918-STG002)
From	5-Oct-18	Performed Preservation of the APU for Storage as per APU Sundstrand Manual Task 49-00-00-620-801. (12 Months) (Ref: W/O No. AML 0918-STG002)
Due	4-Oct-19	

PERFORM APU REMOVAL FOR STORAGE

XY-ALE

REGIS XY-ALE

TYPE EMB - 145 EP

MSN 145089

COMPANY AML

ATA 49

CONTROL YES ☒ NO ☐

Date 27-09-2018 Issued by CHO ME ME LWIN

TSN Deadline :

CSN Deadline :

Deadline/Life Limit date :

REQUEST :

*Open access YES ☐ NO ☒ Panels identification :

TO PERFORM APU REMOVAL FOR STORAGE

IAW EMB 145 AMM TASK 49-14-01-000-801-A

APU TSN : 17600 HR , APU CSN : 29248

*Closed access YES ☐ NO ☒ Panels identification :

ACTION(S) :

MECH
NAME

LAE/AH
(Sign)

LIC/APP
No.

DATE

PERFORMED REMOVAL OF APU FOR STORAGE
IAW. EMB-145 AMM TASK 49-14-01-000-801-A.

LAY. N. N. N. N.

[Signature]

AML
23
CB

01. OCT. 2018

CROSS REFERENCE DOC
(IRC/DDI/OTHERS)

THE WORK RECORDED ABOVE HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE MYANMAR CIVIL AVIATION REQUIREMENTS PART 145 FOR THE TIME BEING IN FORCE AND IN THAT RESPECT THE AIRCRAFT/EQUIPMENT IS CONSIDERED FIT FOR RELEASE TO SERVICE.

Description	Part No.	Serial No. (OFF)	Serial No. (ON)	Batch No.	Qty
APU	M4504113 A	SP.E 0014016	-	-	1

Tick ☒ if applicable

☐ Duplicate Inspection (DI) performed in accordance with the requirement of MCAR Part.21.6.1.6

☐ Critical Task Inspection (CTI) is required.

1st Inspection (Signature)

2nd Inspection (Signature)

LIC/APP No : Date :

LIC/APP No : Date :

Date of closure : 01 - OCT - 2018

Hour of closure LT : 04:00

Station : YANGON


AMP-EMB 145
DATE : 27-Sep-18

 Regis. XY-ALE
Effectivity

 Check List No 0
Revision No 03 of Mar/2017
Item No 1

MRB Item No

NIL

Zone

ATA

Task Code

Access

49

TEXT
TO PERFORM APU REMOVAL FOR STORAGE
IAW EMB 145 AMM TASK 49-14-01-000-801-A

Application documents

AMM task 49-14-01-000-801-A

Task Code

Skill Code

WORKS PERFORMED BY

 MECH
NAME

 LAE/AH
(Sign)

 LIC/APP
No.

DATE

REMARKS / STATEMENTS

 PERFORMED REMOVAL OF APU FOR STORAGE
IAW EMB 145 AMM TASK 49-14-01-000-801-A

LAX. NAME

 AML
23
CS

01. OCT. 2018

REPETITION

YES

NO

If an additional work is necessary, enter its number here after

Additional Work No. -

THE WORK RECORDED ABOVE HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE MYANMAR CIVIL AVIATION REQUIREMENTS PART 145 FOR THE TIME BEING IN FORCE AND IN THAT RESPECT THE AIRCRAFT/EQUIPMENT IS CONSIDERED FIT FOR RELEASE TO SERVICE.

 Tick ☒ if applicable

☐ Duplicate Inspection (DI) performed in accordance with the requirement of MCAR Part.21.6.1.6

☐ Critical Task Inspection (CTI) is required.

 1st Inspection

 2nd Inspection

LIC/APP No :

LIC/APP No :

DATE

DATE

Date of closure : 01/OCT/2018

Hour of closure LT : 04:00

Station : YANGON

PERFORM CLEANING (APU) AFTER REMOVAL

XY-ALE

REGIS XY-ALE

TYPE EMB - 145 EP

MSN 145089

COMPANY AML

ATA 49

CONTROL YES ☒ NO ☐

Date 27-09-2018 Issued by CHO ME ME LWIN

TSN Deadline :

CSN Deadline :

Deadline/Life Limit date :

REQUEST :

*Open access YES ☐ NO ☒ Panels identification :

TO PERFORM CLEANING (APU) AFTER REMOVAL

IAW APU SUNDSTRAND MODEL T-62T-40C14 MANUAL PN:4504112

*Closed access YES ☐ NO ☐ Panels identification :

ACTION(S) :

MECH
NAME

LAE/AH
(Sign)

LIC/APP
No.

DATE

PERFORMED CLEANING OF APU AFTER REMOVAL

I-A-W- APU SUNDSTRAND MANUAL P/N: 4504112 LAY. NANA

03-OCT-2018

AML
23
CS

CROSS REFERENCE DOC
(IRC/DDI/OTHERS)

THE WORK RECORDED ABOVE HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE MYANMAR CIVIL AVIATION REQUIREMENTS PART 145 FOR THE TIME BEING IN FORCE AND IN THAT RESPECT THE AIRCRAFT/EQUIPMENT IS CONSIDERED FIT FOR RELEASE TO SERVICE.

Description	Part No.	Serial No. (OFF)	Serial No. (ON)	Batch No.	Qty

Tick ☒ if applicable

☐ Duplicate Inspection (DI) performed in accordance with the requirement of MCAR Part.21.6.1.6

☐ Critical Task Inspection (CTI) is required.

1st Inspection (Signature)

2nd Inspection (Signature)

LIC/APP No : Date :

LIC/APP No : Date :

Date of closure : 03/OCT/2018 Hour of closure LT : 17:00 Station : YANGON



AMP-EMB 145

DATE : 27-Sep-18

Regis. XY-ALE
Effectivity

Check List No 0
Revision No 03 of Mar/2017
Item No 1

MRB Item No

NIL

Zone

ATA

Task Code

Access

49

TEXT

TO PERFORM CLEANING (APU) AFTER REMOVAL

IAW APU SUNDSTRAND MODEL T-62T-40C14 MANUAL PN:4504112

Application documents

NIL

Task Code

Skill Code

WORKS PERFORMED BY

MECH
NAME

LAE/AH
(Sign)

LIC/APP
No.

DATE

REMARKS / STATEMENTS

PERFORMED CLEANING OF APU AFTER REMOVAL
I.A.W. APU SUNDSTRAND MODEL T-62T-40C14
MANUAL P/N : 4504112 .

LAE. NING

AML
23
CS

03.OCT.2018

REPETITION

YES

NO

If an additional work is necessary, enter its number here after

Additional Work No.

THE WORK RECORDED ABOVE HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE MYANMAR CIVIL AVIATION REQUIREMENTS PART 145 FOR THE TIME BEING IN FORCE AND IN THAT RESPECT THE AIRCRAFT/EQUIPMENT IS CONSIDERED FIT FOR RELEASE TO SERVICE.

Tick ☒ if applicable

☐ Duplicate Inspection (DI) performed in accordance with the requirement of MCAR Part.21.6.1.6

☐ Critical Task Inspection (CTI) is required.

1st Inspection

2nd Inspection

LIC/APP No :

LIC/APP No :

DATE

DATE

Date of closure : 3/OCT/2018

Hour of closure LT : 17:00

Station : YANGON

PERFORM VERIFICATION FOR APU INVENTORY COMPONENTS PART NUMBER AND SERIAL NUMBER

XY-ALE

REGIS XY-ALE

TYPE EMB - 145 EP

MSN 145089

COMPANY AML

ATA 49

CONTROL YES ☒ NO ☐

Date 27-09-2018 Issued by CHO ME ME LWIN

TSN Deadline :

CSN Deadline :

Deadline/Life Limit date :

REQUEST :

*Open access YES ☐ NO ☒ Panels identification :

TO PERFORM VERIFICATION FOR APU INVENTORY COMPONENTS PART NUMBER AND SERIAL NUMBER

*Closed access YES ☐ NO ☐ Panels identification :

ACTION(S) :

MECH
NAME

LAE/AH
(Sign)

LIC/APP
No.

DATE

PERFORMED VERIFICATION OF APU INVENTORY
COMPONENTS PART NUMBER AND SERIAL
NUMBERS AS PER ATTACHED SHEET.

LAW. NAME

128

AML
23
C8

05-OCT-2018

CROSS REFERENCE DOC
(IRC/DDU/OTHERS)

THE WORK RECORDED ABOVE HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE MYANMAR CIVIL AVIATION REQUIREMENTS PART 145 FOR THE TIME BEING IN FORCE AND IN THAT RESPECT THE AIRCRAFT/EQUIPMENT IS CONSIDERED FIT FOR RELEASE TO SERVICE.

Description	Part No.	Serial No. (OFF)	Serial No. (ON)	Batch No.	Qty

Tick ☒ if applicable

☐ Duplicate Inspection (DI) performed in accordance with the requirement of MCAR Part.21.6.1.6

☐ Critical Task Inspection (CTI) is required.

1st Inspection (Signature)

2nd Inspection (Signature)

LIC/APP No : Date :

LIC/APP No : Date :

Date of closure : 05-OCT-2018 Hour of closure LT : 10:00 Station : YANGON

**AUXILIARY POWER UNIT
VERIFICATION OF INVENTORY LIST**



APU MODEL : T-62T-40C14

APU PART NO : M4504113A

APU SERIAL NO : SP-E0014016

TOTAL HOURS : 17600 TOTAL CYCLES : 29248

DATE : 05- OCT- 2018

No.	Description	Part No.	Serial No.	Remark
1	IMP Assy T40C14	4504253	SIF 1385	-
2	Wheel, Turbine	4504847	HH 623	-
3	Ambient Pressure (Unamplified)	4504196A	00-12-038	-
4	Harness Assy, Engine Control	4504230B	V28-3322	-
5	Fuel Control Assembly	4504616A	10-01-120	-
6	Data Memory Module Assembly	4505576	0148	-
7	Exciter, Ignition	4950745	9482015	-
8	Valve, Anti-Surge	4950899	1209	-
9	Cooler Air / Oil	4950929	779575-007	-
10	Flow Divider	4951486	0528	-
11	Filter Assy, Fuel	4952505	C1339	-
12	Valve, Solenoid - Fuel	4952316-2	1431	-
13	Switch, Low Oil Pressure	4952366	491	-
14	Switch, High Oil Temperature	4952397-1	0053	-
15	Valve, Bleed Air-Servo Control	4952829	1009	-

AMP-EMB 145

DATE : 27-Sep-18

Regis. XY-ALE
Effectivity

Check List No 0
Revision No 03 of Mar/2017
Item No 1

MRB Item No

NIL

Zone

ATA

Task Code

Access

49

TEXT

TO PERFORM PRESERVATION OF THE APU FOR STORAGE AS PER APU SUNDSTRAND MANUAL
IAW EMB 145 APU MM TASK 49-90-00-620-801

Application documents

NIL

Task Code

Skill Code

WORKS PERFORMED BY

MECH
NAME

LAE/AH
(Sign)

LIC/APP
No.

DATE

REMARKS / STATEMENTS

PERFORMED PRESERVATION OF THE APU FOR
STORAGE AS PER APU SUNDSTRAND MANUAL
TASK 49-90-00-620-801. (12 MONTHS)

LAY NANG

18

AML
23
CS

05.OCT.2018

REPETITION

YES

NO

If an additional work is necessary, enter its number here after

Additional Work No. —

THE WORK RECORDED ABOVE HAS BEEN CARRIED OUT IN ACCORDANCE WITH THE MYANMAR CIVIL AVIATION REQUIREMENTS PART 145 FOR THE TIME
BEING IN FORCE AND IN THAT RESPECT THE AIRCRAFT/EQUIPMENT IS CONSIDERED FIT FOR RELEASE TO SERVICE.

Tick ☒ if applicable

☐ Duplicate Inspection (DI) performed in accordance with the requirement of MCAR Part.21.6.1.6

☐ Critical Task Inspection (CTI) is required.

1st Inspection

2nd Inspection

LIC/APP No :

LIC/APP No :

DATE

DATE

Date of closure : 05/OCT/ 2018

Hour of closure LT :

16:00

Station :

YANGON

Date: 12th JUNE 2019

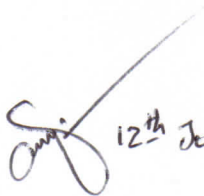
NON INCIDENT STATEMENT

REF: /QA-NIS/006/2019

The following Component removed from Embraer EMB-145EP, MSN 145089 (XY-ALE) and whilst under the control of Air Mandalay Limited, it has not been subjected to major failure, extreme stress, over temperature outside of normal operation, immersion in salt water nor obtained by or used for any military purposes. This statement is true and correct to the best of my knowledge.

Description : Auxiliary Power Unit
Model : Hamilton Sundstrand's APS 500R Series, Type T-62T- 40C14
Part Number : M4504113A
Serial Number : SP-E0014016
TSN : 17600 Hrs
CSN : 29248 Cys

Yours Sincerely,



12th June '19

Win Than

Quality Assurance Manager

Air Mandalay Limited

Win Than
Quality Assurance Manager
AIR MANDALAY LIMITED.