

## C&L Aerospace

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

**Aircraft:** ERJ-145

**APU P/N:** M4504113A

**LSV Date for Refurbishment:** July 30<sup>th</sup> 2021



**TSN:** 17600

**TSLR:** 0

**CSN:** 29248

**CSLR:** 0

**LSV Date:** July 30<sup>th</sup> 2021

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

#### SUMMARY:

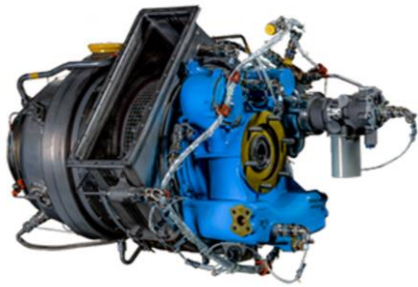
This APU is fresh from shop visit at NExT MRO where it was tested, repaired and preserved with an 8130 Dual Release issued July 30<sup>th</sup> 2021. There are no outstanding Airworthiness Directives or Alert Service Bulletins due at this time.

#### LIFE LIMITED PARTS:

ITEM	P/N	TSN	CSN	LIFE LIMIT	CYCLES REMAINING
Turbine Wheel	4504847	3580	6240	15000	8760
Compressor Wheel	4504253	3580	6240	50000	43760

#### 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	4504185D	0
Secondary Fuel Manifold	4951610	3580
Ignitors	CH34834	0
Engine Control Harness	4504230B	UNK
Fuel Control Assy	4504616A	UNK
Flow Divider	4951486	UNK
Fuel Filter	4953126	0
Ignition Exciter	4950745	UNK
Data Memory Module	4505576	UNK
Air/Oil Cooler	4950929	UNK
Ambient Pressure	E4504196A	UNK



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

### 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:**

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 1007769

UNIT P/N: M4504113A

S/N: SP-E0014016

MODEL APS 500R



# NEXt MRO

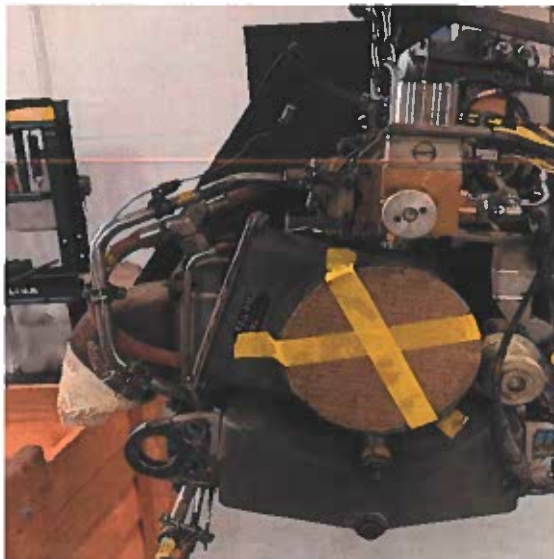
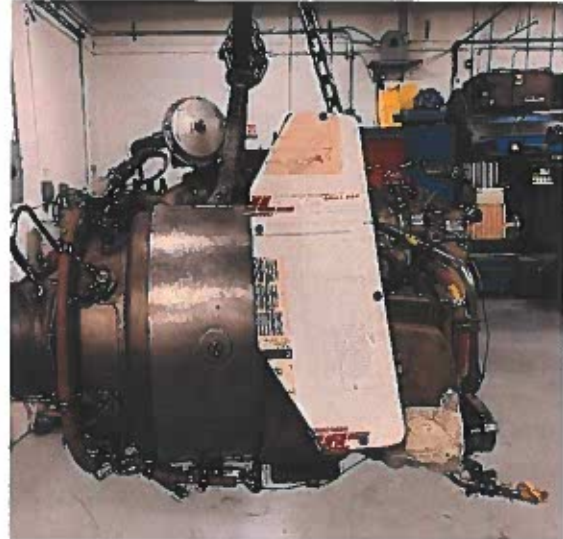
AN AEROSPACE ENGINEERING GROUP COMPANY

FAA REPAIR STATION # FIDR645K



WORK ORDER NUMBER: 1007769  
CUSTOMER: C&L AEROSPACE  
PART NUMBER: M4504113A  
SERIAL NUMBER: SP-E0014016  
MODEL: APS 500R  
DATE: 07-30-2021

## INCOMING PHOTOS







**NExT MRO**

AN AEROSPACE ENGINEERING GROUP COMPANY

FAA REPAIR STATION # FIDR645K



WORK ORDER NUMBER: 1007769  
CUSTOMER: C&L AEROSPACE  
PART NUMBER: M4504113A  
SERIAL NUMBER: SP-E0014016  
MODEL: APS 500R  
DATE: 07-30-2021

## GENERAL INFORMATION

RECEIVED DATE: 05-APR-2021

CUSTOMER PO: R642821

### CUSTOMER REASON FOR REMOVAL

MAINTENANCE CONVENIENCE

### CUSTOMER REQUESTED WORKSCOPE

TEST ONLY

### INCOMING APU TIMES AND CYCLES

TOTAL CYCLES AT REMOVAL: 29,248 Cyc.

TOTAL HRS AT REMOVAL: 17,600 Hrs.



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SERIAL NUMBER: SP-E0014016  
MODEL: APS 500R  
DATE: 07-30-2021

## 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

- SPEED SENSOR P/N: 4504185D

-

-

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**REMARKS:** INADECUATE STORAGE PRESERVATION, PRESENCE OF DIRT IN INLET PLENUM. THE UNIT WAS NOT DRAINED (OIL/FUEL).



**NEXT MRO** ✈️  
AN AEROSPACE ENGINEERING GROUP COMPANY  
FAA REPAIR STATION # FIDR645K

**WORK ORDER NUMBER:** 1007769  
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**PART NUMBER:** M4504113A  
**SERIAL NUMBER:** SP-E0014016  
**MODEL:** APS 500R  
**DATE:** 07-30-2021





**NExT MRO**  
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FAA REPAIR STATION # FIDR645K

WORK ORDER NUMBER: 1007769  
CUSTOMER: C&L AEROSPACE  
PART NUMBER: M4504113A  
SERIAL NUMBER: SP-E0014016  
MODEL: APS 500R  
DATE: 07-30-2021

## TEARDOWN REPORT

### TAIL PIPE INSPECTION

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

### INLET INSPECTION

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

REMARKS: \_\_\_\_\_  
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DATE: 07-30-2021

## 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: \_\_\_\_\_  
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FAA REPAIR STATION # FIDR645K

WORK ORDER NUMBER: 1007769  
CUSTOMER: C&L AEROSPACE  
PART NUMBER: M4504113A  
SERIAL NUMBER: SP-E0014016  
MODEL: APS 500R  
DATE: 07-30-2021

## 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: \_\_\_\_\_

### COMPRESSOR WHELL

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: \_\_\_\_\_  
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**NEXT MRO**

AN AEROSPACE ENGINEERING GROUP COMPANY

FAA REPAIR STATION # FIDR645K

WORK ORDER NUMBER: 1007769

CUSTOMER: C&L AEROSPACE

PART NUMBER: M4504113A

SERIAL NUMBER: SP-E0014016

MODEL: APS 500R

DATE: 07-30-2021

## TEARDOWN REPORT

### INLET HOUSING

P/N: 4504117B

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

### DIFFUSER

P/N: 4507965

- ☐ NICKS
- ☐ DENTS
- ☐ CRACK
- ☐ WORN VANES
- ☐ SEAL SURFACE SCORED
- ☐ CURVIC COUPLING DAMAGED
- ☐ UNIT IN GOOD VISIBLE CONDITION
- ☒ OTHER: FOREING OBJECTS

REMARKS: COMPRESSOR DIFFUSER: VANES ARE DIRTY - FOREING OBJECTS

INLET HOUSING: ABRADABLE MATERIAL DETERIORATED



**NExT MRO**

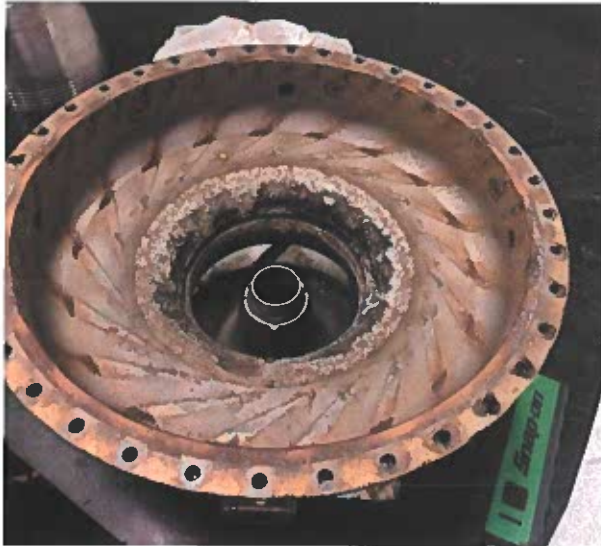
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## TEARDOWN REPORT







**NExT MRO**

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FAA REPAIR STATION # FIDR645K

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PART NUMBER: M4504113A  
SERIAL NUMBER: SP-E0014016  
MODEL: APS 500R  
DATE: 07-30-2021

## 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 USA

FAA CRS No: FIDR645K

WORK ORDER: 1007769-21

305/230-4305

Customer: CLA001 / C&amp;L AVIATION SERVICES LLC

Dept#:APU

Location:

Cust RO#: R642821

Step:FINAL PREPARATION

Warranty Code:00 / 0

Mfr: HAMILTON

Goodthru AD#:

Outgoing M4504113A / APU, APS500R

S/N:SP-E0014016

Incoming P/N: M4504113A

Incoming S/N: SP-E0014016

Incoming Work Req.: FUNCTIONAL TEST

Outgoing Work Req: REPAIR

Manual#: 1461

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

Tools: T0440001,T0440

Reason/Rm:

instructions: \*\*\*\*\* PLEASE TEST ONLY \*\*\*\*\*

Date Recvd: 05/Apr/2021

Date Reqrd: 23/Jul/2021

Date Estmtd: 12/Apr/2021

PRELIMINARY INSPECTION:

DATE: 05/Apr/2021

INSPECTOR: RAUL BRAVO

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

PRE TEST (Yes/No): N

DATE: 06/Apr/2021

INSPECTOR: RAUL BRAVO

N/A

HIDDEN DAMAGE:

N/A

TEARDOWN FINDINGS:

THE UNIT WAS RECEIVED IN A WOOD CRATE. COVERS INSTALLED.  
MISSING STARTER GENERATOR.DURING PRELIMINARY INSPECTION, A THERMOCOUPLE P/N: 4951130  
WAS FOUND DAMAGED. THE SPEED SENSOR P/N: 4504185 IS MISSING  
AND ALL PLUGS DISCONNECTED.THE BORESCOPE INSPECTION WAS PERFORMED, FINDINGS ARE DESCRIBED  
AS FOLLOWS:

- TURBINE NOZZLE: CRACKS AND MISSING MATERIAL ON VANES.
- EVIDENCE OF SPIDER WEBS AND OTHERS FOREIGN MATERIALS  
IN SEVERAL AREAS.
- MICROBIOLOGICAL GROWTH THROUGH THE UNIT.
- AIR INLET HOUSING CORRODED. RUBBING MARKS



# WORK ORDER FORM 100

Page No. 2

NEXT MRO LLC

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

FAA CRS No: FIDR645K

WORK ORDER: 1007769-21

305/230-4305

Customer: CLA001 / C&amp;L AVIATION SERVICES LLC

Dept#:APU

Location:

Cust RO#: R642821

Step:FINAL PREPARATION

Warranty Code:00 / 0

Mfr: HAMILTON

Goodthru AD#:

Outgoing M4504113A / APU, APS500R

S/N:SP-E0014016

**TEARDOWN FINDINGS:**

- SEAL PLATE ASSY: SEGMENTS HAS HIT EVIDENCE.
- IMPELLER COMPRESSOR HAS NICKS AND RUBBING DAMAGE.
- COMPRESSOR DIFFUSER CRACKED, PITTING CORROSION AND EROSION SIGNS.
- HARNESS CONNECTORS DIRTY AND CORRODED

THE CUSTOMER REQUIRED A TEST ONLY HOWEVER, DAMAGES FOUND THROUGH THE BSI COMPROMISE A SAFE OPERATION OF THE UNIT. A DISASSEMBLE IS RECOMMENDED TO PERFORM A DETAILED INSPECTION.

\*\*\* NOTE: THIS IS A PRELIMINARY QUOTE BASED ON OUR BSI REPORT. FROM 04/07/2021 \*\*\*

\*\*\*\* PER CUSTOMER REQUEST ON 04/15/2021, PLEASE PROCEED WITH A REPAIR INSPECTION OF THE APU. \*\*\*\*

THE UNIT WAS DISASSEMBLED, DAMAGES ARE DESCRIBED AS FOLLOWS:

- TURBINE NOZZLE P/N 4505479 S/N 110372 CRACKS AND MISSING MATERIAL ON VANES ARE OUT OF LIMITS
- INLET HOUSING ASSY P/N 4504117B: CORROSION. ABRADABLE MATERIAL DETERIORATED
- SEAL ASSEMBLY P/N 4951586 S/N 25386: CARBON FACE WORN OUT.
- BLEED VALVE P/N 4952829 S/N 1009: CORROSION IN SEVERAL AREAS, MICROBIOLOGICAL GROWTH. UNIT REQUIRE BENCH TEST
- ANTI SURGE P/N 4950899 S/N 1209: CORROSION IN SEVERAL AREAS, MICROBIOLOGICAL GROWTH. UNIT REQUIRE BENCH TEST.
- COMBUSTOR LINER ASSY P/N 4504383A S/N E05-005 CRACKS ON



# WORK ORDER FORM 100

Page No. 3

NEX T MRO LLC

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

FAA CRS No: FIDR645K

WORK ORDER: 1007769-21

305/230-4305

Customer: CLA001 / C&amp;L AVIATION SERVICES LLC

Dept#:APU

Location:

Cust RO#: R642821

Step:FINAL PREPARATION

Warranty Code: 00 / 0

Mfr: HAMILTON

Goodthru AD#:

Outgoing M4504113A / APU, APS500R

S/N:SP-E0014016

**TEARDOWN FINDINGS:**

THE INNER HEAT SHIELD FORWARD COOLING HOLES

- SEAL PLATE SEGMENTS P/N 172370-100: CRACK ON SEGMENT  
(ACTUAL LENGTH IS 0.024 INCH)

-IGNITER PLUG P/N 4952382 IS NOT WORKING.

TECHNICIAN:DAVID PEREZ

DATE: 22/Apr/2021 INSPECTOR: RAUL BRAVO

FINAL INSPECTION BEFORE ASSEMBLY:

DATE: 21/Jul/2021 INSPECTOR: RAUL BRAVO

**CORRECTIVE ACTION:**THE UNIT WAS DISASSEMBLED, CLEANED, INSPECTED AND TESTED IN  
ACCORDANCE WITH MANUFACTURER'S PROCEDURES

- TURBINE NOZZLE P/N 4505479 WAS REPLACED. S/N OFF: 110372  
S/N ON: 200110HP.

- AIR INLET HOUSING P/N: 4504117B WAS REPLACED.  
S/N OFF: C546 S/N ON: 11E20.

- SEAL ASSEMBLY P/N: 4951586 WAS REPLACED.  
S/N OFF: 25386 S/N ON: V17F34479

- SERVO CONTROLLED BLEED AIR VALVE P/N: 4952829 WAS  
REPLACED S/N OFF: 1009 S/N ON: 2093.

- ANTI SURGE VALVE ASSEMBLY P/N: 4950899 WAS REPLACED  
S/N OFF: 1209 S/N ON: 1649.

- COMBUSTOR LINER ASSY P/N: 4504383A WAS REPLACED,  
S/N OFF: E05-005 S/N ON: C02-007.

-IGNITER PLUG WAS REPLACED  
P/N OFF: 4952382 NSN P/N ON: CH34834 NSN.

- COMPRESSOR DIFFUSER P/N: 4507965 WAS REPLACED  
S/N OFF: NSN S/N ON: MFR-T2310-2016.

- SPEED SENSOR ASSY P/N: 4504185D WAS INSTALLED.





# WORK ORDER FORM 100

Page No. 4

NEXt MRO LLC

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WORK ORDER: 1007769-21

305/230-4305

Customer: CLA001 / C&amp;L AVIATION SERVICES LLC

Dept#:APU

Location:

Cust RO#: R642821

Step:FINAL PREPARATION

Warranty Code: 00 / 0

Mfr: HAMILTON

Goodthru AD#:

Outgoing M4504113A / APU, APS500R

S/N:SP-E0014016

**CORRECTIVE ACTION:**

S/N ON: 2105209.

- THE THERMOCOUPLE P/N: 4951130 WAS REPLACED.
- S/N ON: 84984128

THE UNIT IS READY TO RETURN TO SERVICE IN REFERENCE TO  
MANUFACTURER'S PROCEDURES.

TECHNICIAN:DAVID PEREZ

DATE: 30/Jul/2021 INSPECTOR: RAUL BRAVO

**MODIFICATION/SERVICE BULLETINS:**

N/A

Test Data Used: PRATT &amp; WHITNEY 40014-1 REV 17 2021-06-01

Test Technician: DAVID PEREZ

DATE: 30/Jul/2021

Inspector: RAUL BRAVO

DATE: 30/Jul/2021

Final Inspection:RAUL BRAVO

DATE: 30/Jul/2021

Technician: DAVID PEREZ

DATE: 30/Jul/2021

Inspector: RAUL BRAVO

DATE: 30/Jul/2021

**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 30/Jul/2021





**NEXT MRO**

AN AEROSPACE ENGINEERING GROUP COMPANY



FAA REPAIR STATION # FIDR645K

**WORK ORDER NUMBER:** 1007769  
**CUSTOMER:** C&L AEROSPACE  
**PART NUMBER:** M4504113A  
**SERIAL NUMBER:** SP-E0014016  
**MODEL:** APS 500R  
**DATE:** 07-30-2021

## **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 #: 1007769

APU SERIAL #: SP-E0014016

DATE: 07-30-2021

COMPONENT	P/N	S/N	INSTALL DATE	CYCLES SINCE NEW	LIFE LIMIT CYCLES	REMAINING CYCLES
TURBINE WHEEL	4504847	HH623	MAY 22,2012	6,240	15,000	8,760
IMPELLER	4504253	SIF1385	MAY 22,2012	6,240	50,000	43,760

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



# NEXT MRO

AN AEROSPACE ENGINEERING GROUP COMPANY

FAA REPAIR STATION # FIDR645K

WORK ORDER NUMBER 1007769  
CUSTOMER C&L AEROSPACE  
PART NUMBER M4504113A  
SERIAL NUMBER SP-E0014016  
MODEL APS 500R  
DATE: 07-30-2021

## INVENTORY

DESCRIPTION	QTY	P/N RECEIVED	S/N RECEIVED	P/N SHIPPED	S/N SHIPPED	WORKSCOPE
Bleed Valve	1	4952829	1009	4952829	2093	TESTED
Engine Harness	1	4504230B	V28-S322	4504230B	V28-S322	TESTED
Valve Anti Surge	1	4950899	1209	4950899	1649	REPAIRED
Fuel Control Unit	1	4504616A	10-01-180	4504616A	10-01-180	TESTED
Oil Cooler	1	4950929	779575-007	4950929	779575-007	TESTED
Data Memory Module	1	4505576	0148	4505576	0148	TESTED
Ambient Pressure Sensor	1	E4504196A	00-12-038	E4504196A	00-12-038	TESTED
Cable Ignition	1	4950581-1	NSN	4950581-1	NSN	TESTED
Cable Ignition	1	4951491	NSN	4951491	NSN	TESTED
Ignition Exciter	1	4950745	9462015	4950745	9462015	TESTED
Valve Fuel Solenoid	1	4952316-2	1431	4952316-2	1431	TESTED
Flow Divider	1	4951486	0526	4951486	0526	TESTED
Gearbox	1	4504235C	V11-D709	4504235C	V11-D709	TESTED
Fuel Nozzle	1	4951830	1AAA0821	4951830	1AAA0821	TESTED
Fuel Nozzle	1	4951830	1TT02430	4951830	1TT02430	TESTED
Fuel Nozzle	1	4951830	1TT02100	4951830	1TT02100	TESTED
Fuel Nozzle	1	4951830	1W02263	4951830	1W02263	TESTED
Fuel Nozzle	1	4951830	UV059G4	4951830	UV059G4	TESTED
Fuel Nozzle	1	4951830	1TT04293	4951830	1TT04293	TESTED
Low Oil Pressure	1	4952366	491	4952366	491	TESTED
Ignitor	2	495382	NSN	CH34834	NSN	TESTED
Differential Pressure	1	179349-1	1726	179349-1	1726	TESTED
Speed Sensor Assy	1	MISSING	MISSING	4504185D	2105209	TESTED
Switch High Oil Temp	1	952397-1	0051	952397-1	0051	TESTED





**NEXT MRO**  
AN AEROSPACE ENGINEERING GROUP COMPANY  
FAA REPAIR STATION # FIDR645K

**WORK ORDER NUMBER:** 1007769  
**CUSTOMER:** C&L AEROSPACE  
**PART NUMBER:** M4504113A  
**SERIAL NUMBER:** SP-E0014016  
**MODEL:** APS 500R  
**DATE:** 07-30-2021

### COMPONENT CHANGE RECORD

COMPONENT	REMOVED P/N	REMOVED S/N	INSTALLED P/N	INSTALLED S/N	DATE
Combustor Liner Assy	4504383A	E05-005	4504383A	C02-007	07-30-21
Bleed Air Valve	4952829	1009	4952829	2093	07-30-21
Anti-Surge valve	4950899	1209	4950899	1649	07-30-21
Bearing Roller	4951506	3331-2604	4951506	3331-9561	07-30-21
Speed Sensor	N/A	N/A	4504185D	2105209	07-30-21
Ignitor	4952382	NSN	CH34834	NSN	07-30-21
Diffuser	4507965	NSN	4507965	MFR-T2310-2016	07-30-21
Thermocouple	4951130-3	NSN	4951130-3	84984128	07-30-21
Turbine Nozzle	4505479	110372	4505479	200110HP	07-30-21
Seal Assembly Carbon Face	4951586	25386	4951586	V17F34479	07-30-21



**NEXtMRO**  
AN AEROSPACE ENGINEERING GROUP COMPANY  
FAA REPAIR STATION # FIDR645K

**WORK ORDER NUMBER:** 1007769  
**CUSTOMER:** C&L AEROSPACE  
**PART NUMBER:** M4504113A  
**SERIAL NUMBER:** SP-E0014016  
**MODEL:** APS 500R  
**DATE:** 07-30-2021

## AD AND SB INCORPORATED

### AIRWORTHINESS DIRECTIVE REPORT

The Airworthiness directive (AD) report describes AD's complied with at this shop visit and identifies AD's previously complied with as noted in the logbook.

AD NUMBER	AMENDMENT	DESCRIPTION	STATUS
N/A	N/A	None apply to the APS 500R 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:** 1007769  
**CUSTOMER:** C&L AEROSPACE  
**PART NUMBER:** M4504113A  
**SERIAL NUMBER:** SP-E0014016  
**MODEL:** APS 500R  
**DATE:** 07-30-2021

## TEST DATA SHEET

WO: 1007769  
 CUST: C&L AEROSPACE

ENG T-62T-40C14  
 DATE 7/30/2021

P/N: 4504113  
 S/N: SP-E0014016

TEST DATA	TEST STEP			
	No Load	Bleed Air Load	Shaft Load	Shaft & Bleed Air Load
Baro Pressure (psi)	14.70	14.70	14.70	14.70
Inlet Temperature T1 °F	72.90	73.50	74.70	73.30
Bleed Air flow (lb/min)	-	90.40	-	71.35
Cor. Bleed Air Flow (lb/min)	-	89.79	-	23.01
Compressor Pressure (psi)	-	44.03	56.81	47.60
Load Pressure (psi)	-	52.20	14.97	60.02
Load pressure cor. (psi)	-	59.04	-	62.32
Bleed Air temp. °F	-	441.30	89.40	440.20
Cor. Bleed Air temp °F	-	441.30	-	440.00
Engine EGT 1 °F	602.70	1218.00	645.60	1027.40
Engine EGT 2 °F	579.00	1331.90	629.30	1112.90
Tail Pipe EGT °F	578.60	1268.00	623.60	1063.00
Cor tail pipe EGT °F	-	1257.40	0.00	1071.10
Turbine Vibration (g)	5.68	4.38	4.60	5.93
Accessory Vibration (g)	1.17	1.11	1.48	1.17
Tail Pipe pressure (psi)	14.37	14.46	14.40	14.48
Oil pressure (psi)	70.51	70.35	70.27	70.38
Oil temperature °F	217.40	229.80	221.00	222.20
Gear box Air pressure (psi)	0.17	0.18	0.18	0.20
Fuel temperature (°F)	63.10	64.00	63.50	64.50
Fuel pressure (psi)	33.51	33.54	34.22	33.78
Cor. Shaft load Kw	0.00	0.00	20.00	11.00
Fuel flow (lb/h)	102.00	193.20	111.30	172.30
Corrected Fuel Flow (lb/h)	102.00	193.20	111.30	172.70
N1 speed (rpm)	63438.00	63477.00	63477.00	63477.00
OPERATING LIMITS				
Min. Air Flow Lb/min	-	82.70	-	-
Max. EGT corrected °F	-	-	-	1187.80
Min. Press Load cor (psi)	-	51.52	-	56.89
Max. cor. Load temp °F	-	468.90	-	468.30
Max cor. Fuel flow (lb/h)	-	-	-	184.80



# NEXT MRO

AN AEROSPACE ENGINEERING GROUP COMPANY

FAA REPAIR STATION # FIDR645K



WORK ORDER NUMBER: 1007769  
CUSTOMER: C&L AEROSPACE  
PART NUMBER: M4504113A  
SERIAL NUMBER: SP-E0014016  
MODEL: APS 500R  
DATE: 07-30-2021

## OUTGOING BSI PHOTOS





**NExT MRO**

AN AEROSPACE ENGINEERING GROUP COMPANY




FAA REPAIR STATION # FIDR645K

WORK ORDER NUMBER: 1007769  
CUSTOMER: C&L AEROSPACE  
PART NUMBER: M4504113A  
SERIAL NUMBER: SP-E0014016  
MODEL: APS 500R  
DATE: 07-30-2021

**FAA 8130-3**  
**OR**  
**CERTIFICATE OF CONFORMITY**



1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		2. <b>AUTHORIZED RELEASE CERTIFICATE</b> FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number:  <b>6815</b>	
4. Organization Name and Address: <b>NExT MRO LLC</b> <b>15800 N.W. 49th Avenue, Miami Gardens, FL 33014 USA, 305/230-4305 (FIDR645K)</b>					5. Work Order/Contract/Invoice Number:  <b>1007769 / R642821</b>	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:	
<b>1</b>	<b>APU, APS500R</b>	<b>M4504113A</b>	<b>1</b>	<b>SP-E0014016</b>	<b>REPAIRED</b>	
12. Remarks: <b>The work performed has been accomplished in accordance with 1461, Revision # 17 PN 40C14-1 Revision Date 01/Jun/2021</b> <b>Pertinent detail are on file at this repair station under WO 1007769</b>  <i>Turbine Wheel P/N: 4504847 S/N: HH623 CSN: 6240 Cyc</i> <i>Compressor Wheel: P/N: 4504253 S/N: SIF1385 CSN: 6240 Cyc</i> <i>APU TSN: 17600 CSN: 29248</i>  <b>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.</b>						
13a. Certifies the items identified above were manufactured in conformity to:  <input type="checkbox"/> Approved design data and are in condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 12.			14a. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input checked="" type="checkbox"/> 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.:
						<b>FIDR645K</b>
13d. Name (Typed or Printed)		13e. Date (dd/mm/yyyy):		14d. Name: (Typed or Printed)		14e. Date (dd/mm/yyyy):
				<b>RAUL BRAVO</b>		<b>30/Jul/2021</b>

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.	



# NEXtMRO

AN AEROSPACE ENGINEERING GROUP COMPANY



Aug 02, 2021

**Subject: Preservation**

**Auxiliary Power Unit P/N: M4504113A S/N: SP-E0014016**

To whom it may concern,

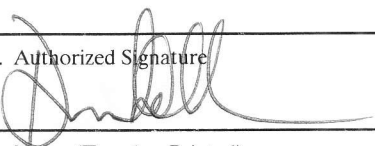
This letter is to confirm that the component mentioned above has been preserved in reference to manufacturer's standard procedures.

**Preservation good until 30-Jul-2022**

Please feel free to contact me should you have any additional questions or concern.

**Raul Bravo**

APU Production Manager

1. Approving National Aviation Authority/Country <b>UNITED STATES</b>		<b>2. AUTHORIZED RELEASE CERTIFICATE</b> <b>FAA FORM 8130-3</b> <b>AIRWORTHINESS APPROVAL TAG</b>				3. Form Tracking Number  <b>5350472 1.000</b>	
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. <b>7069602</b> 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. <div style="float: right; text-align: right;"> TT 14020.00  TSR 0.00  TCSN 23008.00  TCSR 0.00 </div>							
Pertinent detail of the workscope identified in Block 12 are on file at this repair station under work order no. <u>7069602</u> <b>Work performed by Repair Station LI3R658L</b>							
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:  <input type="checkbox"/> Approved Design data and are in condition for safe operation.  <input type="checkbox"/> Non-Approved design data specified in Block 13.				19. <input checked="" type="checkbox"/> CFR 43.9 Return to Service <input checked="" type="checkbox"/> 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			
<b>FAA FORM 8130-3</b>		<b>User/Installer Responsibilities</b>		<b>Airworthiness Approval Tag</b>			
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:**IncomingOutgoing

<b>OEM Part Number:</b>	M4504113A	M4504113A
<b>OEM Serial Number:</b>	SP-E0014016	SP-E0014016
<b>Part Description :</b>	OUTLINE, ENGINE	OUTLINE, ENGINE T-40C14APU-MOD
<b>Model:</b>	40C14-APU 55820	40C14-APU 55820
<b>A/C Tail #:</b>	N803AE	
<b>Removal Date:</b>	03/29/12	
<b>Sched/Unsched:</b>	Unscheduled	
<b>TT:</b>	14020.00	14020.00
<b>TSR:</b>	5011.00	0.00
<b>TCSN:</b>	23008.00	23008.00
<b>TCSR:</b>	13716.00	0.00
<b>Configuration In:</b>	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 /

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

# SHOP FINDINGS REPORT

Date Printed: 22 / May / 2012  
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HS ORDER: 5350472 SO  
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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	

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



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

**SHOP FINDINGS REPORT**

Date Printed: 22 / May / 2012  
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HS ORDER: 5350472 SO  
HS LINE: 1.000

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 Information**IncomingOutgoing

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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# SHOP FINDINGS REPORT

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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  
restrictions on the first page of this document  
or file.**



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

# SHOP FINDINGS REPORT

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

Certificate # CAAC.F00100107 EASA.145.4903 FAA # L13R658L

**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

**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](http://www.hsrepair.com).

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

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

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



**Hamilton Sundstrand**

A United Technologies Company

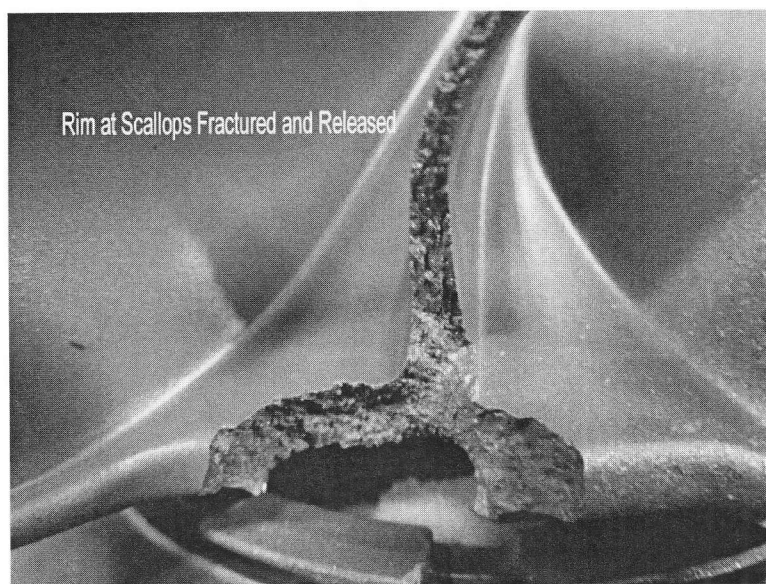


Figure 1. Turbine Wheel Distress

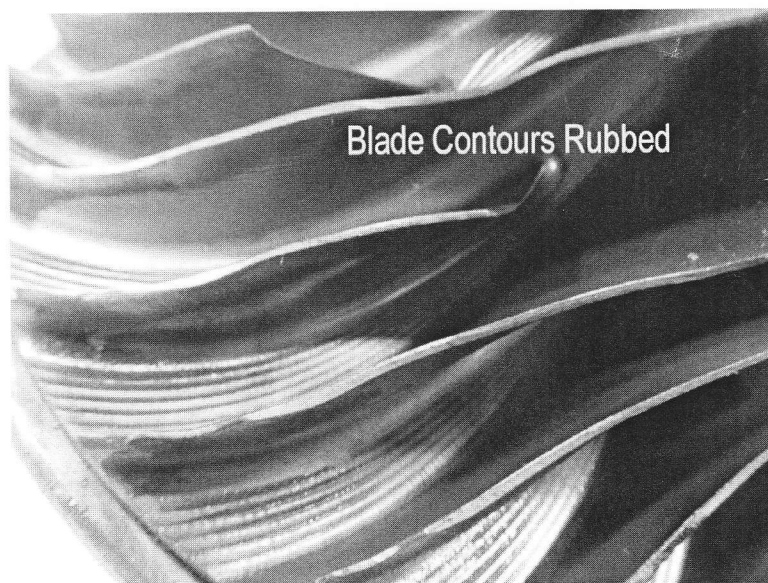


Figure 2. Impeller Damage

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

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



**Hamilton Sundstrand**

A United Technologies Company



Figure 3. Seal Segment Damage



Figure 4. Air Inlet Housing Damage

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

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



**Hamilton Sundstrand**

A United Technologies Company

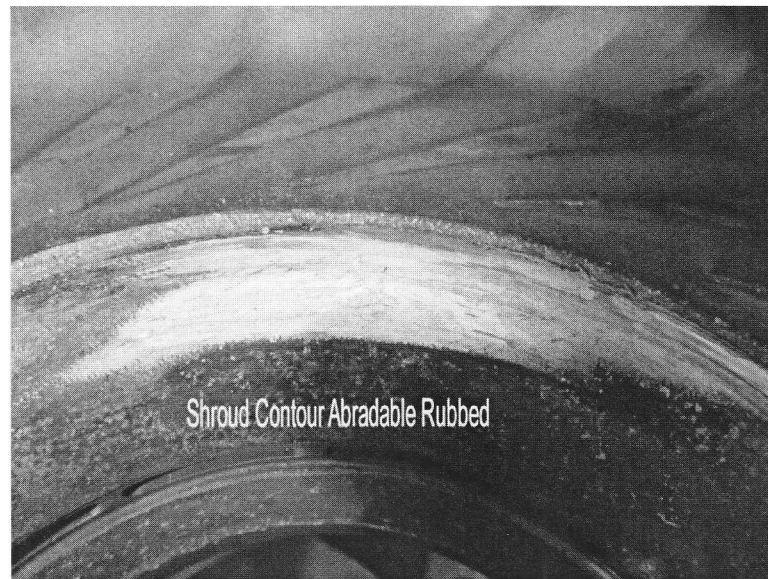


Figure 5. Air Inlet Housing Damage

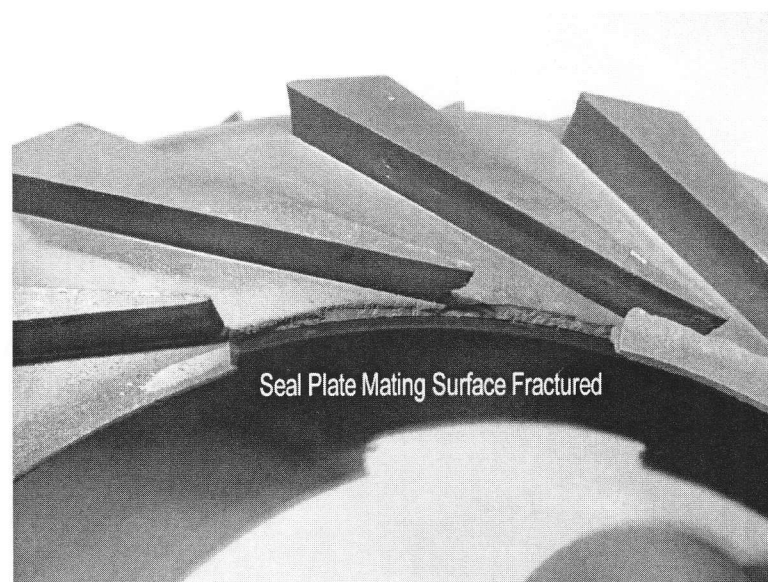


Figure 6. Diffuser Damage

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



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



**Hamilton Sundstrand**

A United Technologies Company

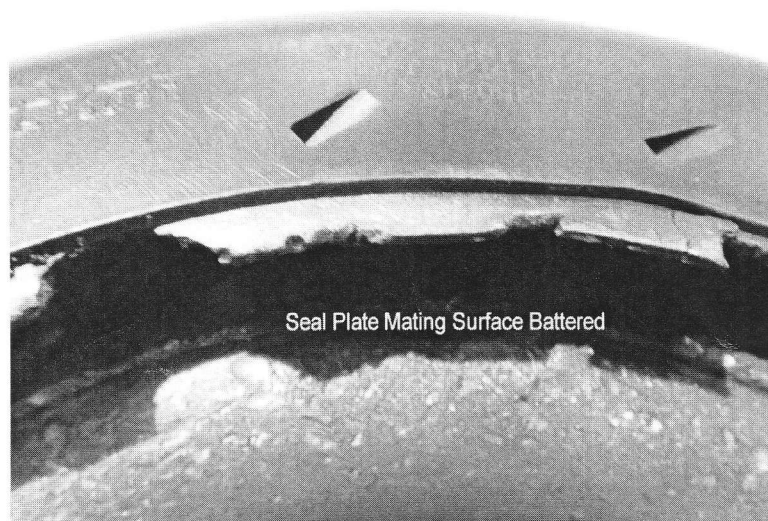


Figure 7. Turbine Nozzle Damage

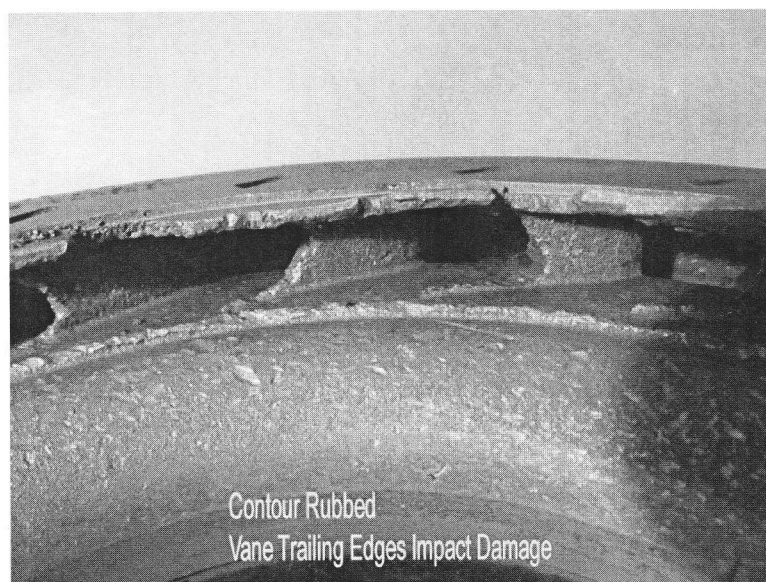
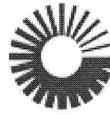


Figure 8. Turbine Nozzle Damage

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



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



**Hamilton Sundstrand**

A United Technologies Company



Figure 9. Duplex Thrust Bearing Distress

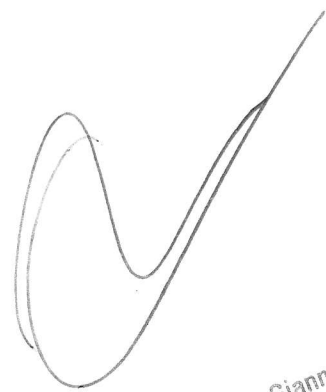
**EAR DATA – Subject to the export control restrictions on the first page of this document or file.**

## 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 **13th/2013** 37. POSICION / Position **Only**  
38. TECNICO / Technician 39. SUPERVISOR / RESPONSABLE MANTENIMIENTO  
NOMBRE / Name **H. Marquez** NOMBRE / Name **A. Ramirez**  
LICENCIA / Certificate **200200178** LICENCIA / Certificate **200111911**  
FIRMA / Signature FIRMA / 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 ARCHIVO DE MANTENIMIENTO. COPIA DE CARTON (3) REGRESAR CON LA UNIDAD REMOVIDA AL ALMACEN.  
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.

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

**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:** \_\_\_\_\_ **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

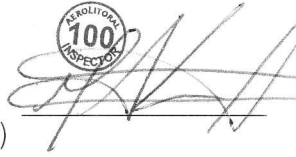
**Acción Correctiva:** \_\_\_\_\_  
(Corrective Action)

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:**   
(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:**   
(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)

Número de Serie: SP-E014545  
(Serial Number)

Descripción:  
(Description)

Código ATA:  
(ATA Code)

N/P Instalada:  
(P/N On)

N/S Instalada:  
(S/N On)

Folio Bitácora de Mantenimiento:  
(Issue Sheet #)

31805

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

Acción Correctiva:  
(Corrective Action)

WAS INSTALLED APU I.A.W. A.M.M. 79-14-01-4.

Fecha de Aplicación: May 13<sup>th</sup>/2013  
(Accomplish Date)

Estación: Mexico  
(Station)

Nombre del Técnico: H. Marquez  
(Mechanic's Name)

No. Licencia: 200700178  
(Certificate)

Firma:   
(Signature)

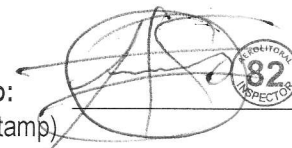
Fecha de Inspección: 13-Mayo-2013  
(Inspection Date)

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		<b>Aircraft Stopped Operation</b>
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. <b>AML 0918-STG002</b> )
3-Oct-18		Performed Cleaning of APU. ( Ref: W/O No. <b>AML 0918-STG002</b> )
5-Oct-18		Performed Verification for APU Inventory Components Part No & Serial No. ( Ref: W/O No. <b>AML 0918-STG002</b> )
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. <b>AML 0918-STG002</b> )
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.

1<sup>st</sup> Inspection ..... (Signature)

2<sup>nd</sup> 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.

**1<sup>st</sup> Inspection .....**
**2<sup>nd</sup> 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.

1<sup>st</sup> Inspection ..... (Signature)

2<sup>nd</sup> 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 SUNDSTRANT 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.

1<sup>st</sup> Inspection .....

2<sup>nd</sup> 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.

1<sup>st</sup> Inspection ..... (Signature)

2<sup>nd</sup> 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.

1<sup>st</sup> Inspection .....

2<sup>nd</sup> Inspection .....

LIC/APP No : .....

LIC/APP No : .....

DATE

DATE

Date of closure : 05/OCT/ 2018

Hour of closure LT :

16:00

Station :

YANGON

Date: 12<sup>th</sup> JUNE 2019

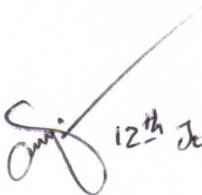
**NON INCIDENT STATEMENT**

**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,



12<sup>th</sup> June '19

Win Than

Quality Assurance Manager

Air Mandalay Limited

Win Than  
Quality Assurance Manager  
AIR MANDALAY LIMITED.