

Shop Findings Report

W0001219



DEVICE CONFIGURATION:

Part Number: 3800702-1
Serial number: P-5518
Description: GTCP 131-9B
Tail number: D-AWBB
Removal Date: 29-Jul-2019
Installation Date: 26-Dec-2014
Arrival date: UNK

EPCOR B.V.

Bellsingel 41
1119 NT Schiphol-Rijk
Phone: +31 203161 730
Email: ar@epcor.nl
EASA: NL.145.1326
FAA CFRS: E45Y760Y
VAT Code: NL 8082 47992B01

APOC Aviation

Veilingweg 48
2651 BE Berkel en Rodenrijs

COMPONENT MAINTENANCE MANUALS:

Description	CMM Name	Revision	Revision date
IRM	49-26-85	32	27-9-2018
IPC	49-26-93	11	13-9-2018
EM	49-26-95	12	17-8-2018

DEVICE USAGE (INCOMING):

TSN: 21079 **TSO:** 21079 **TSR:** 2995 **CSN:** 17937 **CSO:** 17937 **CSR:** 3301

REASON OF REMOVAL:

Test & Recertification

CUSTOMER WORK REQUIRED:

- Borescope inspection (submit report to APOC)
- Remove and Tag starter Generator ('as is'). Please pack carefully
- If BSI satisfactory Test & Recertify

INCOMING INSPECTION:

131-9A/9B Visual inspection

Description	Inspection value
Load Compressor Bearing/Scroll Assembly cracked on exit casting	No
FOD at LC IGV's	No
Thermocouple gaskets cracked	No
LCV wire shaving	No
Harness grommets damaged	No
Plumbing grommets damaged	No
Surge duct damaged	No
Filter Bowls damaged	No
Combustor orifice free of obstruction	Yes

EPCOR Ref#: W0001219
Date Printed: 05-sep-2019

Customer Ref#: RO190389
Time: 13:01:49

Printed By: Mike Snel
Page: 1 of 7

Shop Findings Report

W0001219



Metal in scavenge filter	No
Lube by-pass indicator popped	No
Oil at L/C witness drain	No
T-Duct damaged	No
Thermocouple sleeves brittle	No
Generator stud damaged	No
Inlet plenum seal damaged	No
Inlet housing structure damaged	No
Inlet plenum damaged	No
Ignition unit damaged	No
Oil cooler matrix damaged	No
Exhaust duct damaged	No
Metal chips found on MCD	No
APU Received with oil	Yes
Backshells damaged/ loose	No
Connector pins damaged	No
Fuel lines damaged	No
Harness chafed	No
IGV moves free	Yes
Insulation blanket torn	No
Metal in lube filter	No
Oil cooler dirty	Yes
Oil lines damaged	No
Other damages and discrepancies	Starter generator paint chipped
Speed sensor tip chafed	No
Condition of Oil	Black
Rotating group	Turns rough
Perform DMM readout of APU	Performed

131-9B-LRU INCOMING

Description	Inspection value	Item number	Serial number
Oil temp control valve		160550-1	1621
Oil cooler assy		160564-2	5515
Starter Generator		28B545-9	39-A0056
Bleed Air Valve		3291214-2	752
Surge Control Valve		3291238-2	5992
DMM		3876287-1	GE 921
Oil level sensor		3876298-3	SN050147000877
IGV Actuator		3886188-3	6238
Ignition Exciter		3888058-5	SN990218010408
Generator Harness		3888448-2	SN052586600085
Wiring Harness	S/N unreadable	3888449-2	UNKNOWN
Oil pump assy		4131020-3	1657
Fuel Control Unit		441921-4	CUC12280

EPCOR Ref#: W0001219

Customer Ref#: RO190389

Printed By: Mike Snel

Date Printed: 05-sep-2019

Time: 13:01:49

Page: 2 of 7

Shop Findings Report

W0001219



APU-INCOMING-APU-sections

Description	Inspection value
P/N Gearbox	3805051-1
P/N Power Section	3800702-1
S/N Gearbox	None
S/N Power Section	P-5518

APU-INCOMING-BORESCOPING

Description	Inspection value
Performed Borescope inspection	Yes, see Borescope inspection report

GTCP 131-9B

Description	Inspection value
Customer owned hardware received	Bleed duct and two clamps, exhaust clamp, fuel supply tube, drain tube, generator and gen harness
Engine mounts attached	No
Generator Transport Cover attached	No
Generator Transport Gasket attached	No
Hardware missing	No
Hoist Bridge attached	No
External Condition of APU	Dirty

CONCLUSION:

Preliminary conclusion

Return After Loan/Lease

Confirmation

Confirmed

Found FOD/DOD

No

Final conclusion

Re-Certification Test Only

EPCOR Ref#: W0001219

Customer Ref#: RO190389

Printed By: Mike Snel

Date Printed: 05-sep-2019

Time: 13:01:49

Page: 3 of 7

Shop Findings Report

W0001219



WORKSCOPE:

Main

Description	Inspection value
Repair Level	Performance Test
Certification level	Tested
Found FOD/DOD	No
Metal Contamination	No
Warranty Request	No
Engineering Investigation	No

Power Section

Description	Inspection value
Power Section Complaint	None
Power Section Disassembly	No Disassembly
Power Section Inspection criteria	Continue Time
Power Section Inspection criteria addition	All parts
P/S Blades for NEW/OH	No
P/S Nozzles for NEW/OH	No
Power Section Bearing replacement	No
Power Section Carbon Seals replacement	No

Gearbox

Description	Inspection value
Gearbox Complaint	Test & Recertification
Gearbox Disassembly	No Disassembly
Gearbox Inspection criteria	Continue Time
Gearbox Bearing replacement	No
Gearbox Carbon Seal replacement	No

Service Bulletins

Description	Inspection value
SB 49-7688 Replace Fuel Control Unit (FCU), Part No. 441921-4 with Part No. 441921-5.	Perform SB

LRU

Description	Inspection value
Fuel Control Unit	LRU Not Removed
Fuel solenoid	LRU Not Removed
Fuel Atomizer	LRU Not Removed
Starter Generator	LRU Not Removed
DMM	LRU Not Removed
Ignition Exciter	LRU Not Removed
Wiring Harness	LRU Not Removed
Generator Harness	LRU Not Removed
Igniter lead	LRU Not Removed
Igniter plug	LRU Not Removed
EGT Thermocouple	LRU Not Removed
Speed Sensor	LRU Not Removed
Oil temp control valve	LRU Not Removed
Oil cooler assy	LRU Not Removed
Oil pump assy	LRU Not Removed
Oil pressure switch LOP	LRU Not Removed
Oil level sensor	LRU Not Removed
Bleed Air Valve	LRU Not Removed
Surge Control Valve	LRU Not Removed
Inlet temp T2 sensor	LRU Not Removed
Inlet press sensor P2	LRU Not Removed
Pneumatic total press sensor PT	LRU Not Removed
Pneumatic total press Pt probe	LRU Not Removed
Pneumatic delta press Dp sensor	LRU Not Removed
IGV Actuator	LRU Not Removed

INSPECTION FINDINGS:

3830416-1 Nozzle Fuel Injection

Description	Inspection value
Abnormal wear	No

EPCOR Ref#: W0001219

Customer Ref#: RO190389

Printed By: Mike Snel

Date Printed: 05-sep-2019

Time: 13:01:49

Page: 4 of 7

Shop Findings Report

W0001219



Notes	Threads damaged
Part status	Overhaul
Quantity	1
Serial number	2BAL0751

441921-4 Fuel Control Unit

Description	Inspection value
Abnormal wear	No
Notes	Failed on test,FCU resolver circuit shows bad
Part status	Repair
Quantity	1
Serial number	CUC12280

NOTES PERFORMED:

Fault: Fuel Control Unit failed on test. 351/22/00 Fuel_Control_Unit on arinc.
Action: Replaced FCU Pn: 441921-4 with inspected FCU Pn :441621-5 and Performed SB:49-7688 Rev. 0.

-Unit passed full performance test IAW. EM: 49-26-95 Rev. 12 Date: 17-Aug-2018.

After test Starter Generator Pn: 28B545-9 Sn: 39-A0056 is removed.

CORRECTIVE NOTES:

Inspected and tested according to EM: 49-26-95 Rev. 12 Date: 17-Aug-2018.

Refer to details of Life Limited Parts installed in this APU, to the APU Service Record, EPCOR W/O: W0001219 Date: 04-Sep-2019.

Refer to details of parts installed in this APU, to the shop findings report EPCOR W/O: W0001219 Date: 04-Sep-2019

Refer to details of modification(s) performed during this shop visit, to the APU Service Bulletin List, EPCOR W/O: W0001219 Date: 04-Sep-2019

Note: Unit preserved for long time storage up to 24 months according to SB: 49-7997 Rev. 5.

Note: APU is certified with no Starter Generator Pn: 28B545-9 Sn: 39-A0056.

DEVICE CONFIGURATION OUTGOING:

Incoming PN:	3800702-1	Outgoing PN:	3800702-1	Condition:	Inspected / Tested
Incoming SN:	P-5518	Outgoing SN:	P-5518		
Description:	GTCP 131-9B	Description:	GTCP 131-9B		

DEVICE USAGE (OUTGOING):

EPCOR Ref#:	W0001219	Customer Ref#:	RO190389	Printed By:	Mike Snel
Date Printed:	05-sep-2019	Time:	13:01:49	Page:	5 of 7

Shop Findings Report

W0001219



TSN: 21079 **TSO:** 21079 **TSR:** 2995 **CSN:** 17937 **CSO:** 17937 **CSR:** 3301

EPCOR Ref#:	W0001219	Customer Ref#:	RO190389	Printed By:	Mike Snel
Date Printed:	05-sep-2019	Time:	13:01:49	Page:	6 of 7

Shop Findings Report

W0001219



ITEM REQUIREMENTS:

APU_MAIN

Item number	Product name	Quantity
2685336	Filter Fuel	1
3094540-1	Filter Elem Oil	1
3830416-1	Nozzle Fuel Injection	1
3830443-1	Plate Lkg	1
3880938-1	Element Fltr Oil	2
441921-5	Fuel Control Unit	2
AN415-3	Hitch Pin	2

EPCOR Ref#: W0001219

Customer Ref#: RO190389

Printed By: Mike Snel

Date Printed: 05-sep-2019

Time: 13:01:49

Page: 7 of 7