

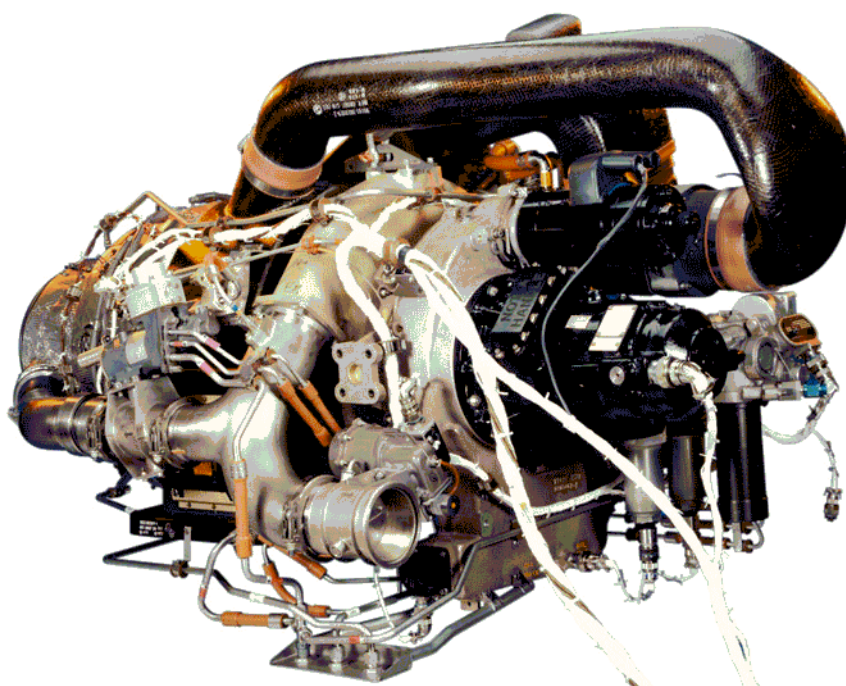
Engineering Preliminary Disposition Report 131-9A

R-2157

335569968

Honeywell Aerospace GmbH

DE.145.0022



**Prepared By: Matthias Hanke
Printed On : 28.03.2019**



Model Number : 131-9A
Serial Number : R-2157
Notification : 335569968
Repair Facility : Honeywell Aerospace GmbH
Maintenance Organization # : DE.145.0022

PRELIMINARY - FINDINGS REPORT

Customer :	SIBERIA AIRLINES JSC	Customer P/O :	PO-ME-19-12
Notification :	000335569968	Induction Date :	22.03.2019
Model No :	ENGINE OUTLINE, GAS TURBINE	Installed Date :	00.00.0000
Part Number :	3800708-1		
Series :	2	Removal Date :	07.03.2019
Serial No In :	R-2157		

Mod to S/N : R-2157

TIMES / CYCLES HH.DD (HH:MM)

Time Since New:	38481,05	(38481:03)	Cycles Since New:	38056,00
Time Since Repair:	12837,92	(12837:55)	Cycles Since Repair:	13777,00

AIRCRAFT INFORMATION

Aircraft Tail Number: VP-VHP

Aircraft/Application Model: AIRBUS A319

CUSTOMER INFORMATION

Sales Order No: 0009071142

REMOVAL INFORMATION

Removal Type: Unscheduled

RETURN REASON

Primary Removal Reason: LLP Replacement

INDUCTION FINDINGS

0010 - Receiving Data

Logbook Received with Engine*

Yes

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Shipping box Type	Wood
If Shipping Box is wood, check ISPM 15 [Pass
Shipping Box	Customer
Shipping frame?	Customer
Shipping box/frame reusable?	Reusable
Shipping/transport damages?	OK
Hourmeter/DMM Condition	Received - Okay
DMM / Hours Readout performed? see LT->	Yes
DMM/Hours: time since new?	38481
DMM/Hours: cycles since new?	38056

0020 - General Information

Engine nameplates missing	No
Engine nameplate data mismatch	No
Additional customer hardware received	No
QEC parts installed	No
Generator assy installed	No
Findings 1st external condition	Severely dirt contaminated
APU rotation	Rotating free
Missing APU Hardware	No

0030 - Oil System Investigation

APU received with oil	No
Lube filter element missing	No
Lube filter element condition	In good condition
Gen scavenge filter element missing	No
Gen scavenge filter element condition	In good condition
Gearbox oil sump MCD condition	Normal/Clean
Speed monopols condition	Tips in good condition
Oil tubes condition	In good condition
Oil cooler tube retainers bent	Yes

0040 - Fuel System Investigation

Fuel filter element missing	No
Fuel filter element condition	Normal/Clean
Fuel tubes/hoses/nozzles condition	In good condition

0050 - Outline Investigation

Findings on inlet plenum	Dry
Findings on grounding straps	In good condition
Findings on bleed duct	Dry

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Findings on bleed duct clamps	In good condition
Findings on surge ducts	Duct damaged / eroded / frayed
Findings on surge duct clamps	In good condition
Findings on surge control valve	In good condition
Findings on pneumatic tubes	In good condition
Findings on load control valve	In good condition
Findings on cooling fan ducts	Metal sheet at wire mesh dented
Findings on cooling fan	Flow area oily
Cooling fan vacuum check	Fail
Findings on starter motor	terminal boot damaged
Findings on oil cooler	Oil Cooler air side dirty
Findings on wiring harness	Wiring harness severely oil and dirt con
Findings on ignition box	In good condition
Findings on ignition lead	In good condition
Findings on igniter plug	Igniter plug tip burnt
Findings on thermocouples	In good condition
Findings on exhaust pipe	In good condition
Findings on gearbox vent tube	Dry

0060 - Gearbox Investigation

Generator pad rubber seal missing	No
Generator pad cover missing	No
Findings on gearbox (external)	Gearbox generator flange pin hole damage
Findings on starter clutch	In good condition
Air/oil separator port oil wetted	Yes
Findings on oil fill cap	In good condition

0070 - Load Compressor Investigation

Oil at load compressor witness drain	No
Findings on IGV assembly	In good condition

0080 - Power Section Investigation

Findings on engine mount adaptation	In good condition
Findings on thermal blankets	In good condition
Combustion orifice blocked	No
Witchhat inserts (3ea) damaged	No

0090 - Boroscope Inspection

Boroscope Required?	No
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SUMMARY

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DISPOSITION

Recommended Workscope:

- 1) Detailed induction check
- 2) Load Compressor and Power Section complete disassembly
- 3) Gearbox complete disassembly
- 4) Cooling Fan complete disassembly
- 5) Load Compressor and Power Section rotating hardware inspection per IRM zero-time criteria
- 6) Remaining Load Compressor and Power Section hardware inspection per IRM continue-time criteria
- 7) Gearbox hardware inspection per IRM continue-time criteria
- 8) Starter Clutch inspection per IRM zero-time requirements
- 9) Cooling Fan hardware inspection per IRM continue-time criteria
- 10) Replacement of LLPs:
 - Turbine Shaft

- 11) Remaining hardware inspection per IRM continue-time criteria
- 12) Bench test & repair as necessary of LRUs:

FCU 441921-X code SCHYD
Bench test and repair as necessary per CMM
Perform SB 441921-49-0006 on attrition
(Rework FCU -5 Issue 8 to Issue 9)

Electrical Starter 2704506-X code SCELECT
Bench test and repair as necessary per CMM
Perform SB 49-2395 (mod to -4)

Lube Module 4131020-4 code SCHYD
Disassemble completely excluding valves and
Inspect per IRM continue-time criteria

Harness 3888438-1 code SCELECT
Bench test and repair as necessary per CMM

LCV 3291432-X code SCPNEU
Bench test and repair as necessary per CMM
Perform SB 49-9011 on attrition

SCV 3291238-2 code SCPNEU
Bench test and repair as necessary per CMM

DMM 3876287-1 code SCELO

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Bench test and repair as necessary per CMM

Ignition Plug 305766-4 code SCELECT
 Inspect per IRM zero-time criteria

IGV Actuator 3886188-X code SCHYD
 Perform bench test per Engineering Order

Oil Cooler 160494-1 code SCOILCO
 Bench test and repair as necessary per CMM

Fuel Nozzle(s) 3830416-1, 10ea in total code MOP
 Overhaul per CMM

Solenoid valve 692546-4 code SCHYD
 Perform inspection per IRM zero time criteria

Flow Divider 3883830-1 code SCHYD
 Inspect per IRM zero-time criteria
 Perform SB 49-7739 on attrition
 (Repl. FD 3883830-1 with 3879005-1 & fitting)

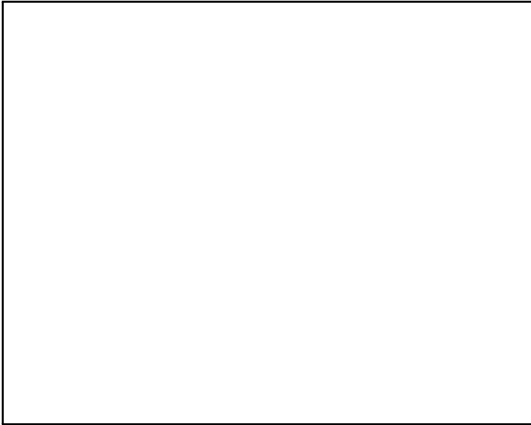
13) Full performance test run per EM heavy repair criteria

Perform following Service Bulletins:

4131020-49-03	on attrition	Replace Belleville Spring
441921-49-0006	on attrition	FCU alternative seal
49-2395		rew starter -2/-3 to -4
49-7712	on attrition	repl surge duct
49-7739	on attrition	rp flowdivider with 3879005-1
49-7764	on attrition	repl fan inlet duct -2 with -3
49-7765	on attrition	repl fan exit duct-3 with -4 repl.
49-7843	on attrition	Surge duct
49-8000	on attrition	repl C/F exit duct
49-8001	on attrition	repl fuel suppl tube -1 with -2
49-8002	on attrition	repl SCV drain tube -1 with -2
49-8103		rew plumb/electr -4 to -5 repl
49-8110	on attrition	LCV -1 to -2
49-8117		rp Starter -2/-3 to-4
49-8126		repl air/oil seal
49-8127	on attrition	repl ign unit -7 with -5
49-8205	on attrition	repl oil tube retainer



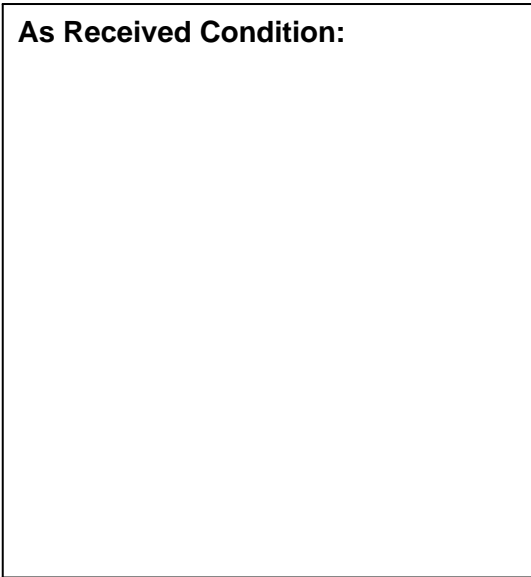
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49-8217	part access	repl stat air seal 3844738-6 with -7
49-8225	on attrition	repl. 3840310-3 with #-4
49-8244		repl 3616140 with -11
49-8246		rew 3616140 to -11
49-9011	on attrition	rew LCV to -2

DISPOSITION SUMMARY

FINDINGS



As Received Condition:

APU received in severely dirt contaminated condition

DMM Data:
1302.560 AVERAGE CORR T5 DURING MES DEGF
54.030 AVERAGE CORR PT DURING MES PSIA
356.580 AVERAGE CORR FUEL FLOW DURING MES PPH

286 NUMBER OF UNSUCCESSFUL STARTS
168 NUMBER OF NO ACCELERATION SHUTDOWNS
61 NUMBER OF NO FLAME SHUTDOWNS
60 Number of No Speed S/D
72 Number of Emergency S/D