



Lufthansa Technik

Engine Shop Visit Documentation



HGT1700

ESN: P-00135

Shop Visit Dez 2025



Lufthansa Technik

Engine Shop Visit Documentation



HGT1700

ESN: P-00135

Shop Visit Dez 2025

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Lufthansa Technik

Engine Shop Visit Documentation



APU Release Certificate

HGT1700
ESN: P-00135



71055319

1. Approving Competent Authority / Country LBA / Germany	2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1	3. Form Tracking Number WT100532791 00000001
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This is a true copy of the original!
7-27494F
 Sign/PK no
26/11/2025

4. Organisation Name and Address:	 Lufthansa Technik Lufthansa Technik AG Weg beim Jäger 193 22335 Hamburg Germany	5. Work Order/Contract/Invoice 604189
-----------------------------------	--	--

6. Item	7. Description	8. Part No.	9. Qty.	10. Serial No.	11. Status / Work
01	APU - HGT1700A	70720041-00	1	P-00135	INSPECTED / TESTED

12. Remarks:

A J WALTER AVIATION LIMITED U18436 HGT1700 P-00135

TT TSO Opr. Hours 3031:39 Cycles 1790	WORK PERFORMED IN ACCORDANCE WITH: CMP, COMPONENT MAINTENANCE PUBLICATION, AUXILIARY POWER UNIT - GAS TURBINE ENGINE, PART NUMBER 70720041-00, HON99193-99193-00010-00, ISSUE NO. 010 DATED 2025-09-11 CMDS, COMPONENT MAINTENANCE DOCUMENT SUMMARY : ATA49-24-96 : R/1 071 : 70720041-00 DATED 2025-05-11 ETOPS COMPLIANT/APPROVED ACC. TO AIRBUS ETOPS CMP REV.10 AND AIRBUS MPD REV.11. ISSUE JUL/01/25	Return to Service in Accordance with 14 CFR part 43 The work identified in Block 11 and described herein has been accomplished in accordance with 14 CFR part 43 and in respect to that work, the items are approved for release or return to service under FAA Certificate No. DLAY225D
--	---	--

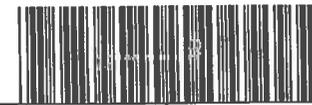
Further details of work performed are attached either in a Workshop Report reference number see blocks 3 and 5 or in other applicable documents.

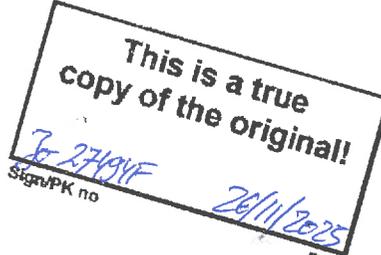
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in a condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12	14a. <input checked="" type="checkbox"/> Part-145.A.50 Release 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 Part- 145 and in respect to that work the items are considered ready for release to service.		
13b. Authorised Signature	13c. Approval / Authorisation Number	14b. Authorised Signature 027494 	14c. Certificate / Approval Ref. Number DE.145.0001
13d. Name	13e. Date (dd mmm yyyy)	14d. Name Torsten Jordan	14e. Date (dd mmm yyyy) 26 Nov 2025

USER / INSTALLER RESPONSIBILITIES

This certificate does not automatically constitute authority to install the item (s). Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.

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



1. 国家 Country P. R. China		2. 中国民用航空总局 CAAC <input type="checkbox"/> 符合性 Conformity <input checked="" type="checkbox"/> 适航性 Airworthiness 批准放行证书/适航批准标签 Authorized Release Certificate / Airworthiness Approval Tag				3. 证书编号 Certificate Ref. No. LHT / CAAC / A / WT100532791 00000001																		
4. 单位 Organisation		 Lufthansa Technik				Lufthansa Technik AG Weg beim Jäger 193 P.O. Box 63 03 00 D-22313 Hamburg Federal Republic of Germany																		
5. 工作单/合同单/货单 Work Order/Contract/Invoice 604189		6. 序号 Item		7. 内容 Description		8. 件号 Part No.		9. 适用性 Eligibility *		10. 数量 Qty.		11. 系列号/批号 Serial / Batch No.		12. 产品状态 Status / Work										
		01		APU - HGT1700A		70720041-00		UNKNOWN		1		P-00135		INSPECTED / TESTED										
13. 备注 Remarks																								
<p>A J WALTER AVIATION LIMITED U18436 HGT1700 P-00135</p> <p>WORK PERFORMED IN ACCORDANCE WITH: CMP, COMPONENT MAINTENANCE PUBLICATION, AUXILIARY POWER UNIT - GAS TURBINE ENGINE, PART NUMBER 70720041-00, HON99193-99193-00010-00, ISSUE NO. 010 DATED 2025-09-11 CMDS, COMPONENT MAINTENANCE DOCUMENT SUMMARY : ATA49-24-96 : R/T 071 : 70720041-00 DATED 2025-05-11 ETOPS COMPLIANT/APPROVED ACC. TO AIRBUS ETOPS CMP REV.10 AND AIRBUS MPD REV.11. ISSUE JUL/01/25</p> <table border="1"> <thead> <tr> <th></th> <th>Opr. Hours</th> <th>Cycles</th> </tr> </thead> <tbody> <tr> <td>TT</td> <td>3031:39</td> <td>1790</td> </tr> <tr> <td>TSO</td> <td>3031:39</td> <td>1790</td> </tr> </tbody> </table> <p style="text-align: right;">  This is a true copy of the original! Sign/PK no Date </p> <p><input checked="" type="checkbox"/> Further details of work performed are attached either in a Workshop Report reference number see blocks 3 and 5 or in other applicable documents.</p> <p>For storage conditions see CMM or Operator's maintenance program. Limited life parts will normally be accompanied by maintenance history including life used.</p>																	Opr. Hours	Cycles	TT	3031:39	1790	TSO	3031:39	1790
	Opr. Hours	Cycles																						
TT	3031:39	1790																						
TSO	3031:39	1790																						
14. 新产品 New Parts				15. 使用过的产品 Used Parts:																				
<p>兹声明上述产品除第 13 项的其它规定以外, 已按照上述国家适航条例进行制造/检查, 并且该产品(出口产品)符合经批准的型号设计资料和进口国提出的专用要求。</p> <p>Certifies that the part(s) identified above except as otherwise specified in block 13 was(were) manufactured/inspected in accordance with the airworthiness regulations of the stated country and/or in the case of parts to be exported with the approved design data and with the notified special requirements of the importing country. (over)</p>				<p>兹声明上述产品除第 13 项的其它规定以外, 已按照上述国家适航条例和进口国通知的特殊要求进行工作, 该产品处于安全可用状态可以批准放行使用。</p> <p>Certifies that the work specified above except as otherwise specified in block 13 was (were) carried out in accordance with the airworthiness regulations of the stated country and the notified special requirements of the importing country and in respect to that work the part(s) is (are) in condition for safe operation and considered ready for release to service. (over)</p>																				
16 批准人签名 Signature 027494				18 批准日期 26 Nov 2025				19 中国民航总局授权 Issued by or on behalf of the CAAC				F04900352												
17 批准人姓名(打印的) Name (printed) Torsten Jordan																								
批准放行证书/适航批准标签 使用者/安装者职责 (1) 必须明确: 本文件并不批准零件/组件/部件可以装到有关产品上。 (2) 当使用者/安装者使用的是所在国适航当局条例, 而不是本表第 1 项中所指国家适航当局的条例时, 使用者/安装者必须保证所在国的适航当局能接受所指国家适航当局批准出口的零件/组件/部件。 (3) 表中第 14 项、第 15 项的陈述, 并不说明本表是安装批准。在所有情况下, 航空器使用前, 航空器使用者/安装者应把按本国适航条例颁发的安装批准放入维修记录中。 AAC-038 (12/94) LHT Form 31160 F-25 (HAM T/TQ-A1)								AUTHORIZED RELEASE CERTIFICATE / AIRWORTHINESS APPROVAL TAG USER / INSTALLER RESPONSIBILITIES 1. It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. 2. Where the user/installer works in accordance with the national regulations of an Airworthiness Authority different than the Airworthiness Authority of the country specified in block 1 it is essential that the user/installer ensures that his/her Airworthiness Authority accepts parts/components/assemblies from the Airworthiness Authority of the country specified in block 1. 3. Statement 14 and 15 do not constitute installation certification. In all cases the aircraft maintenance record must contain an installation certification issued in accordance with the national regulation by the user/installer before the aircraft may be flown. *参阅产品目录详细查找适用性 *Cross-check eligibility for more details with parts catalogue																

Workshop Report Copy

71055319



Customer Order No. U18436 HGT1700 P-00135	 Lufthansa Technik Lufthansa Technik AG Weg beim Jäger 193 22335 Hamburg Germany	Certificate Ref. No. WT100532791 00000001
Part. No. as received 70720041-00		Serial No. as received P-00135
Part No. as dispatched 70720041-00	Serial No. as dispatched P-00135	Description APU - HGT1700A
Reason for removal re-certification		Responsible Workshop 44430000
Findings Refer to Transfer Report		Modification Status according to Mod-Label See Unit Mod-Label if equipped
Action Refer to Transfer Report		
The work specified above has been performed subject to Lufthansa Technik's Standard conditions for Technical Services which, if not superseded by another agreement or not yet agreed upon before, are acknowledged by the customer with acceptance of the part(s) hereunder.		Date (dd mmm yyyy) 26 Nov 2025



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Engine Shop Visit Documentation



APU Transfer Report

HGT1700
ESN: P-00135

Transfer Report

Engine Type	Engine S/N	Rev. No.	Operator	Aircraft	Rem. Date	Rem. Place
HGT1700A	P-00135	604189	2AJ	Unknown	N/A	N/A
Position	Engine TT	Engine TC	Engine TSO	Engine CSO	Engine TSR	Engine CSR
Aft	3031:39	1790	3031:39	1790	2:40	11

Reason for removal

Re-certification

Shop findings / Highlights

ATP RUN ACCOMPLISHED.

Replaced modules
Task performed i. a. w.
 NONE Load Power Gearbox

Honeywell CMP 49-24-97 Issue No.010

installed modules S/N and performed workscope level (LI=Light (Inspected), LR=Light (Repaired), M=Medium (Repaired), H=Heavy (Overhauled))

Load Module LA062146 **LI** **Power Module** LA062148 **LI** **Gearbox Module** LA062147 **LI**
Test information

EGT Margin ECS [°C]	EGT Margin MES [°C]	Vibration Gearbox [In/s]	Vibration Turbine [In/s]	Vibration Starter/Gen [In/s]	Automatic Start Time [s]	Oil Consumption	Test Date	APU Accepted
18.6	15.7	0.22	0.40	0.47	61.8	No	25.11.2025	Yes

Shop comments

- Oil Filter Check Results: No Findings
- Magnetic Plug Check Results: No Findings
- Borescope Inspection Results: No Findings
- APU Preservation Date: 25.11.2025 until 25.11.2027 i.a.w. CMP 49-24-97 / SB 49-8028 Rev.3
- Preservation of Fuel System: Performed on 25.11.2025 i.a.w. CMP 49-24-97
- DOA/DER or CRAS implemented: No
- ETOPS: Yes
- All installed items of this event are in compliance with Manual Revision No. as stated above
- First Stage Turbine Blade life status: Were not disassembled. Blades have accumulated 3031:39 OPH since new.

Documents attached

-
- Dual Release EASA Form One
-
- Missing Parts List
-
- Accessory Report
-
- CAAC AAC-038
-
-
- CAA Form 1 (LHT Form 33081)

Work to be performed during installation

- Remove all caps from drain bosses and covers from inlets and outlets and remove the desiccant bags from the APU exhaust.
- If any, install missing items per applicable manual. Refer to Missing Parts List.
- Refill oil system i.a.w. applicable manual. This unit was shipped without oil.
- De-Preserve the fuel system i.a.w. applicable manual. The fuel system was preserved per applicable manual.

Modification & inspection information

Service Bulletin status see SB status document

Issued by

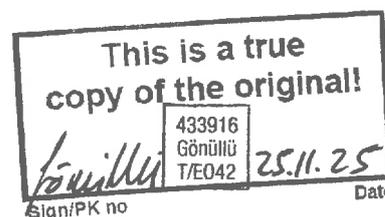
 433916
 Gönüllü
 T/E042

Date of issue

25.11.2025

Distribution

Customer





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Engine Shop Visit Documentation



Missing Parts List

HGT1700
ESN: P-00135

Missing Part List



Status Outgoing	Component APU	Manufacturer Honeywell	Distribution HAM T/EO4
Customer 2AJ	Engine S/N P-00135	Revisions-No. 604189	
Engine Type HGT1700A	Core/Module S/N N/A	Shop in date (dd.mm.yyyy) 21.11.2025	

Item	Description	Partnumber	Qty	Remarks
1				No missing part
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13		762948		
14	not required			
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

Editor HAM T/EO42	Prepared by HAM T/EO43	Inspector / Stamp Rossmann / 762948	Date (dd.mm.yyyy) 25.11.2025
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Lufthansa Technik

Engine Shop Visit Documentation



Accessory Report

HGT1700
ESN: P-00135

APU Accessory Report



Lufthansa Technik

APU HGT1700A		Eng. SN: P-00135	TT: 3028:59	Customer: 2AJ		Operator: 2AJ		For customer only
Removed From A/C		Event No.: 604189	TC: 1779	Rev: 604189				
		Incoming		Outgoing				
				Rossmann	762948		25.11.2025	
Pos.	Nomination	PN Incoming	SN Incoming	PN Outgoing	SN Outgoing	Remarks	Status/Condition	
1	3-Way Pressure Module	3876337-1	15-11214-00429	3876337-1	15-11214-00429	Not disassembled	Not accessible	
2	Chip Detector	3876189-2	N/A	3876189-2	N/A	Not disassembled	Not accessible	
3	Data Memory Module	70720170-3	70720170-30153	70720170-3	70720170-30153	Not disassembled	Not accessible	
4	EGT Thermocouple	70720273-1	1515027700154	70720273-1	1515027700154	not disassembled	Not accessible	
5	EGT Thermocouple	70720273-1	2415027700146	70720273-1	2415027700146	not disassembled	Not accessible	
6	EGT Thermocouple	70720273-1	2415027700382	70720273-1	2415027700382	not disassembled	Not accessible	
7	Fuel Control Unit	70720165-1	70720165-10391	70720165-1	70720165-10391	Not disassembled	Not accessible	
8	Fuel Manifold, Primary	70720300-1	15-169043-16132	70720300-1	15-169043-16132	Not disassembled	Not accessible	
9	Fuel Manifold, Secondary	70720299-1	15-169043-16291	70720299-1	15-169043-16291	Not disassembled	Not accessible	
10	Fuel Nozzle Assembly, Primary	70720322-4	N/A	70720322-4	N/A	Not disassembled	Not accessible	
11	Fuel Nozzle Assembly, Secondary	70720323-3	N/A	70720323-3	N/A	Not disassembled	Not accessible	
12	Igniter Plug	70721452-1	N/A	70721452-1	N/A	Not disassembled	Not accessible	
13	Ignition Exciter	3888058-8	2316250400620	3888058-8	2316250400620	Not disassembled	Not accessible	
14	IGV Actuator	3886188-3	12146	3886188-3	12146	Not disassembled	Not accessible	
15	Lead, Igniter Plug	3876132-15	N/A	3876132-15	N/A	Not disassembled	Not accessible	
16	Motional Transducer (Speed Sensor)	not accessible	not accessible	not accessible	not accessible	Not disassembled	Not accessible	
17	Oil Cooler	70720249-1	70720249-10145	70720249-1	70720249-10145	Not disassembled	Not accessible	
18	Oil Pump	70720141-1	14-162407-00313	70720141-1	14-162407-00313	Not disassembled	Not accessible	
19	Probe, Total Pressure	3617805-1	N/A	3617805-1	N/A	Not disassembled	Not accessible	
20	Sensor, Inlet Temp	not accessible	not accessible	not accessible	not accessible	Not disassembled	Not accessible	
21	Sensor, Oil Level	70720171-2	70720171-20541	70720171-2	70720171-20541	Not disassembled	Not accessible	
22	Starter Generator	70720176-3	70720176-30394	70720176-3	70720176-30394	Not disassembled	Not accessible	
23	Switch, Low Fuel Pressure	3876187-4	1424	3876187-4	1424	Not disassembled	Not accessible	
24	Valve, Bleed	70721870-1	70721870-10048	70721870-1	70721870-10048	Not disassembled	Not accessible	
25	Valve, Pressure Regulator And Relief	70720175-1	0086	70720175-1	0086	not disassembled	Not accessible	
26	Valve, Pressure Relief	968214-6	N/A	968214-6	N/A	Not disassembled	Not accessible	
27	Valve, Surge Control	3290814-6	3290814-2177	3290814-6	3290814-2177	Not disassembled	Not accessible	
28	Valve, Vent and Drain	4127360	N/A	4127360	N/A	Not disassembled	Not accessible	
29	Wiring Harness, E Route	70721537-1	70721537-10281	70721537-1	70721537-10281	Not disassembled	Not accessible	
30	Wiring Harness, M Route	70721545-1	70721545-10037	70721545-1	70721545-10037	Not disassembled	Not accessible	
31	Wiring Harness, S Route	70721544-1	70721544-10007	70721544-1	70721544-10007	Not disassembled	Not accessible	



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Engine Shop Visit Documentation



AD Status Report

HGT1700
ESN: P-00135

Airworthiness Directive Status



Lufthansa Technik

APU HGT1700A:99193

Serial No. P-00135

Customer 2AJ

Operated by 2AJ

Revision No. 604189

Customer PO

APU Total Time 3031:39 OPH

APU Total Cycles 1790 OPC

as of Date 02.DEC.2025

Issue 01
Issued on 02.DEC.2025

Adnan Gönüllü
Signature

433016
Gönüllü
T/EO421

Adnan Gönüllü
HAM T/EO421

Lufthansa Technik AG

FAA Repair Station No. DLAY 225D
EASA Certificate Ref. No. DE 145.0001

Airworthiness Directive Status



Lufthansa Technik

Issue as of Date 01 02.DEC.2025

APU Serial No.

HGT1700A:99193
P-00135

APU Total Time
APU Total Cycles

3031:39 OPH
1790 OPC

Modul	Modulname	Modul	Modulname
P-00135	APU	LA062147	GBX
LA062148	PSA	P-00135	PE
LA062146	LCA	P-00135	GTE

- NO AD'S - fulfilled

433918
GEMÜHD
T/ED021

Airworthiness Directive Status



Lufthansa Technik

Legend of Abbreviations

AD	AIRWORTHINESS DIRECTIVE	ETOPS	EXTENDED RANGE TWIN ENGINE OPERATIONS	PTC	PART TOTAL CYCLE
AEB	ATLAS ENGINEERING BULLETIN	FC	FLIGHT CYCLE	PTT	PART TOTAL TIME
ALI	AIRWORTHINESS LIMITATION INSTRUCTIONS	FH	FLIGHT HOURS	REP	REPAIR
ALT	AIRWORTHINESS LIMITATION TASK	INS	INSPECTION	REV	REVISION
AOT	ALL OPERATOR TELEX	LL	LIFE LIMIT	R/I	REVISION / ISSUE
AOW	ALL OPERATOR WIRE	LTA	LUFTTÜCHTIGKEITSANWEISUNG	RP	REPETITIVE
AMDT	AMENDMENT	MAN	MAINTENANCE ADVISORY NOTICE	S/N	SERIAL NUMBER
CAD	CIVIL AUTHORITY DOCUMENT	ML	MODUL LEVEL	SB	SERVICE BULLETIN AIRCRAFT
CEO	CUSTOMER ENGINEERING ORDER	MM	MAINTENANCE MANUAL	SBC	SERVICE BULLETIN COMPONENT
CIS	CYCLES IN SERVICE	MOD	MODIFICATION	SBE	SERVICE BULLETIN ENGINE
CMM	COMPONENT MAINTENANCE MANUAL	MS	MAINTENANCE SCHEDULE	SIL	SERVICE INFORMATION LETTER
CN	CONSIGNE DE NAVIGABILITE	MTC	MODULE TOTAL CYCLES	SL	SERVICE LETTER
COSL	COMPONENT OPERATING AND STORAGE LIMIT	MTH	MODULE TOTAL HOURS	SDS	SUPERSDES COMPONENT
CSN	CYCLES SINCE NEW	NA N/A	NOT APPLICABLE	SLC	SERVICE LETTER COMPONENT
CSI	CYCLES SINCE INSTALLATION	NDT	NON DESTRUCTIVE TESTING	SSD	SUPERSDED
EAD	EASA AIRWORTHINESS DIRECTIVE	OPH	OPERATION HOURS	TSN	TIME SINCE NEW
EFC	ENGINE FLIGHT CYCLE	OPC	OPERATION CYCLES	TA	TERMINATING ACTION
EFH	ENGINE FLIGHT HOURS	OHM	OVERHAUL MANUAL	TIS	TIME IN SERVICE
ENG	ENGINE	OT	ONE-TIME	TSI	TIME SINCE INSTALLATION
EO	ENGINEERING ORDER	OTH	OTHER REQUIREMENT	>AD< -AD-	AD RELATED REQUIREMENT
ESN	ENGINE SERIAL NUMBER	P/N	PART NUMBER	>E< >ETOPS< -ETOPS-	ETOPS RELATED REQUIREMENT
ESV	ENGINE SHOP VISIT	PPE	PIECE PART EXPOSURE	>HTC<	HIGH TRUST CAPABLE
ETC	ENGINE TOTAL CYCLES	PPL	PIECE PART LEVEL	>PIP<	POWER IMPROVED PROGRAMM
ETH	ENGINE TOTAL HOURS	PRC	PART REGISTER CHART		

Definition of Status

CANCELLED	REQUIREMENT IS CANCELLED	NOT APPL.	NOT APPLICABLE
CUST.CONF	IMPLEMENTATION IS CONFIRMED BY CUSTOMER	OPEN	NOT IMPLEMENTED, SEE REMARK FOR REASON
DATE	DATE OF PERFORMANCE AS KNOWN BY LHT	PCW	PREVIOUSLY COMPLIED WITH
MISS.PART	MISSING PART	PERF.PRO	PERFORMED DURING PRODUCTION
N/A BY ESN	NOT APPLICABLE BY ENGINE SERIAL NUMBER	REMOVE	THE REQUIREMENT WAS PERFORMED AT INDUCTION, BUT DUE TO HARDWARE CHANGE IT IS NOW OPEN
N/A BY PN	NOT APPLICABLE BY PART NUMBER	SUPERSDED	REQUIREMENT IS SUPERSDED (SEE REMARKS FOR SUPERSEDING REQUIREMENT)
N/A BY SN	NOT APPLICABLE BY SERIAL NUMBER	UNKNOWN	THE AFFECTED AREA WAS NOT SUFFICIENTLY TO VERIFY THIS STATUS
N/A BY ENVER	NOT APPLICABLE BY ENGINE VERSION		



Lufthansa Technik

Engine Shop Visit Documentation



SB Status Report

HGT1700
ESN: P-00135

Service Bulletin Status



Lufthansa Technik

APU **HGT1700A:99193**
Serial No. **P-00135**
Customer **2AJ**
Operated by **2AJ**
Revision No. **604189**
CUSTOMER PO

APU Total Time **3031:39 OPH**
APU Total Cycles **1790 OPC**

as of Date **02.DEC.2025**

Issue **01**
Issued on **02.DEC.2025**

Prepared by:
Adnan Gönüllü
HAM T/EO421

Lufthansa Technik AG

FAA Repair Station No. DLAY 225D
EASA Certificate Ref. No. DE 145.0001

Service Bulletin Status



Lufthansa Technik

Issue 01
as of Date 02.DEC.2025

APU
Serial No.

HGT1700A:99193
P-00135

APU Total Time
APU Total Cycles

3031:39 OPH
1790 OPC

Modul	Modulname	Modul	Modulname
P-00135	APU	LA062147	GBX
LA062148	PSA	P-00135	PE
LA062146	LCA	P-00135	GTE

Service Bulletin Status



Lufthansa Technik

Issue 01
as of Date 02.DEC.2025

APU
Serial No.

HGT1700A:99193
P-00135

APU Total Time
APU Total Cycles

3031:39 OPH
1790 OPC

Document	R/I	Description	Type	Subassy	RP	Status	Remarks
CMP CS 25.1535-C-000-0053	10	ETOPS REQUIREMENTS SUMMARY FOR HGT1700 APU	INS	APU	X	24.11.2025	
MPD	11	ETOPS REQUIREMENTS SUMMARY FOR HGT1700 APU	INS	APU	X	24.11.2025	
SBC HGT1700-49-8156	00	REPL. AFT FRAME PN 70720138-3 WITH -4	MOD	PSA		PERF.PRO	
SBC HGT1700-49-8157	00	REPL. LC SCROLL HOUSING PN 70720131-4 WITH -5	MOD	LCA		PERF.PRO	
SBC HGT1700-49-8158	00	REPL. BEARING SUPPORT HOUSING PN70720601-1 WITH -2	MOD	LCA		PERF.PRO	
SBC HGT1700-49-8159	00	REPL. OIL TANK PN 70720124-1 WITH 70721572-1	MOD	GBX		PERF.PRO	
SBC HGT1700-49-8160	00	REPL. MID SUMP SCAV TUBE PN 70720282-2 WITH -3	MOD	APU		PERF.PRO	
SBC HGT1700-49-8181	01	REPL. LUBE JET ADAPTER PN 70720330-3 WITH -4	MOD	GBX		PERF.PRO	
SBC HGT1700-49-8197	00	REPL. FASTENERS ON BLEED DUCT/ SCROLL INTERFACE	MOD	APU		PERF.PRO	
SBC HGT1700-49-8238	01	REPL. IGNITER PLUG LEAD PN 3876132-15 WITH -16	MOD	APU		OPEN	ON ATTRITION ACC. WPG REV.10
SBC HGT1700-49-8239	01	REPL. FIRE BLANKET BRACKET PN 70721729-1 WITH -2	MOD	APU		OPEN	ON ATTRITION ACC. WPG REV.10
SBC HGT1700-49-8240	00	REMOVE EXHAUST CONE PN 70720140-2	MOD	PSA		PCW	
SBC HGT1700-49-8241	00	REPL. SPACERS, ADD BRACKETS AND CLAMPS	MOD	APU		22.06.2023	
SBC HGT1700-49-8317	00	REPL. T2 NOZZLE ASSY PN 3844471-7 WITH -8	MOD	PSA		OPEN	OPTIONAL ACC. WPG REV.10
SBC HGT1700-49-8322	00	REPL. OIL LVL SENSOR PN 70720171-1 WITH -2	MOD	GBX		OPEN	OPTIONAL ACC. WPG REV.10
SBC HGT1700-49-8327	00	SER.8 WEIGHT REDUCTION VIA TUBES, CLAMPS, BRACKETS	MOD	APU		OPEN	OPTIONAL ACC. WPG REV.10
SBC HGT1700-49-8354	00	REPL. LEFT/RIGHT BUFFER AIR TUBES	MOD	APU		15.06.2023	
SBC HGT1700-49-8372	00	REPL IGNITION UNIT PN 3888058-8 WITH PN 70721353-1	MOD	APU		OPEN	OPTIONAL ACC. WPG REV.10

Service Bulletin Status



Legend of Abbreviations

AD	AIRWORTHINESS DIRECTIVE	ETOPS	EXTENDED RANGE TWIN ENGINE OPERATIONS	PTC	PART TOTAL CYCLE
AEB	ATLAS ENGINEERING BULLETIN	FC	FLIGHT CYCLE	PTT	PART TOTAL TIME
ALI	AIRWORTHINESS LIMITATION INSTRUCTIONS	FH	FLIGHT HOURS	REP	REPAIR
ALT	AIRWORTHINESS LIMITATION TASK	INS	INSPECTION	REV	REVISION
AOT	ALL OPERATOR TELEX	LL	LIFE LIMIT	R/I	REVISION / ISSUE
AOW	ALL OPERATOR WIRE	LTA	LUFTTÜCHTIGKEITSANWEISUNG	RP	REPETITIVE
AMDT	AMENDMENT	MAN	MAINTENANCE ADVISORY NOTICE	S/N	SERIAL NUMBER
CAD	CIVIL AUTHORITY DOCUMENT	ML	MODUL LEVEL	SB	SERVICE BULLETIN AIRCRAFT
CEO	CUSTOMER ENGINEERING ORDER	MM	MAINTENANCE MANUAL	SBC	SERVICE BULLETIN COMPONENT
CIS	CYCLES IN SERVICE	MOD	MODIFICATION	SBE	SERVICE BULLETIN ENGINE
CMM	COMPONENT MAINTENANCE MANUAL	MS	MAINTENANCE SCHEDULE	SIL	SERVICE INFORMATION LETTER
CN	CONSIGNE DE NAVIGABILITE	MTC	MODULE TOTAL CYCLES	SL	SERVICE LETTER
COSL	COMPONENT OPERATING AND STORAGE LIMIT	MTH	MODULE TOTAL HOURS	SDS	SUPERSDES COMPONENT
CSN	CYCLES SINCE NEW	NA N/A	NOT APPLICABLE	SLC	SERVICE LETTER COMPONENT
CSI	CYCLES SINCE INSTALLATION	NDT	NON DESTRUCTIVE TESTING	SSD	SUPERSDED
EAD	EASA AIRWORTHINESS DIRECTIVE	OPH	OPERATION HOURS	TSN	TIME SINCE NEW
EFC	ENGINE FLIGHT CYCLE	OPC	OPERATION CYCLES	TA	TERMINATING ACTION
EFH	ENGINE FLIGHT HOURS	OHM	OVERHAUL MANUAL	TIS	TIME IN SERVICE
ENG	ENGINE	OT	ONE-TIME	TSI	TIME SINCE INSTALLATION
EO	ENGINEERING ORDER	OTH	OTHER REQUIREMENT	>AD< -AD-	AD RELATED REQUIREMENT
ESN	ENGINE SERIAL NUMBER	P/N	PART NUMBER	>E< >ETOPS< -ETOPS-	ETOPS RELATED REQUIREMENT
ESV	ENGINE SHOP VISIT	PPE	PIECE PART EXPOSURE	>HTC<	HIGH TRUST CAPABLE
ETC	ENGINE TOTAL CYCLES	PPL	PIECE PART LEVEL	>PIP<	POWER IMPROVED PROGRAMM
ETH	ENGINE TOTAL HOURS	PRC	PART REGISTER CHART		

Definition of Status

CANCELLED	REQUIREMENT IS CANCELLED	NOT APPL.	NOT APPLICABLE
CUST.CONF	IMPLEMENTATION IS CONFIRMED BY CUSTOMER	OPEN	NOT IMPLEMENTED, SEE REMARK FOR REASON
DATE	DATE OF PERFORMANCE AS KNOWN BY LHT	PCW	PREVIOUSLY COMPLIED WITH
MISS.PART	MISSING PART	PERF.PRO	PERFORMED DURING PRODUCTION
N/A BY ESN	NOT APPLICABLE BY ENGINE SERIAL NUMBER	REMOVE	THE REQUIREMENT WAS PERFORMED AT INDUCTION, BUT DUE TO HARDWARE CHANGE IT IS NOW OPEN
N/A BY PN	NOT APPLICABLE BY PART NUMBER	SUPERSDED	REQUIREMENT IS SUPERSDED(SEE REMARKS FOR SUPERSEDING REQUIREMENT)
N/A BY SN	NOT APPLICABLE BY SERIAL NUMBER	UNKNOWN	THE AFFECTED AREA WAS NOT SUFFICIENTLY TO VERIFY THIS STATUS
N/A ENGVER	NOT APPLICABLE BY ENGINE VERSION		



Lufthansa Technik

Engine Shop Visit Documentation



LLP Status report

HGT1700
ESN: P-00135

APU Life Limited Parts Status Report



Customer: 2AJ	Operator: 2AJ	Engine Type: HGT1700A	Date of Certificate: 26-Nov-2025
Engine S/N: P-00135	Event / Revision No.: 604189		
TSN before test: 3028:59	Test Cell Hrs: 2:40	TSN at date of report: 3031:39	
CSN before test: 1779	Test Cell Cycles: 11	CSN at date of report: 1790	

Please note: TSN and CSN of Life Limited Parts include Test-Cell Hours and Cycles of actual APU Shop Visit as stated above and reflect the status at release to service.

Traceable Life Limited / Life Controlled Parts (OFF: as removed, ON: installed and at date of release to service)

Part Name	P/N OFF	S/N OFF	HRS:MIN OFF	CYC OFF	P/N ON	S/N ON	HRS:MIN ON	CYC ON	Part Cycle Remain	Part Condition
Compressor Impeller, LC	70720128-1	14-182449-14362	not disassembled	not disassembled	70720128-1	14-182449-14362	3031:39	1790	25210	Not Disassembled
Compressor Impeller, EC, First Stage	70720029-1	14-182449-13389	not disassembled	not disassembled	70720029-1	14-182449-13389	3031:39	1790	25210	Not Disassembled
Compressor Impeller, EC, Second Stage	3822341-5	1518244916790	not disassembled	not disassembled	3822341-5	1518244916790	3031:39	1790	25210	Not Disassembled
Turbine Disk, First Stage	3842152-1	14-168522-09254	not disassembled	not disassembled	3842152-1	14-168522-09254	3031:39	1790	25210	Not Disassembled
Turbine Rotor Assy, First Stage	3842151-3	14-168522-09254			3842151-3	14-168522-09254				Not Disassembled
Turbine Disk, Second Stage	3842156-1	14-168522-09362	not disassembled	not disassembled	3842156-1	14-168522-09362	3031:39	1790	25210	Not Disassembled
Turbine Rotor Assy, Second Stage	3842155-4	14-168522-09362			3842155-4	14-168522-09362				Not Disassembled
Turbine Rotor Assy, Third Stage	3842160-6	15-156101-02915	not disassembled	not disassembled	3842160-6	15-156101-02915	3031:39	1790	25210	Not Disassembled

The above data have been compiled from data including APU records supplied by the APU owner.

Part Cycle Limit acc. to CMP: 27000 cycles for all LLPs.

Issued by / stamp
Lufthansa Technik - HAM T/EO4 - APU Services

433918
GONDHU
T/EO421

Issue No.
Initial Issue

Date of issue
2-Dec-2025



Lufthansa Technik

Engine Shop Visit Documentation



Test Run Performance Summary

HGT1700
ESN: P-00135

Test Run Data HGT1700



Lufthansa Technik

APU S/N P-00135	APU VERSION HGT1700A	DATE 25-Nov-2025	CUSTOMER 2AJ
EVENT NO. 604189	APU TT AFTER ATP RUN 3031.6563	APU TC AFTER ATP RUN 1790	RUN NO. 1
REASON OF REMOVAL N/A		APU TEST ATP RUN	TESTCELL HAM P1
ECB P/N 3888558-02	ECB S/N 3888558-00179	ECB SOFTWARE P/N SGC567072070712	
SGCU P/N 51090002-00	SGCU S/N 51090002-00207	SGCU SOFTWARE P/N GRS495120000009	

PERFORMANCE TEST CRITERIA				Performance Data Adjusted To S.L. 38 °C (100.4 °F) , Installed Conditions			
ECS - 156 kVA ELECTRICAL LOAD				MES - 156 kVA ELECTRICAL LOAD			
EGT _{COR}	580.8 °C	EGT _{margin}	18.6 °C	EGT _{COR}	589.9 °C	EGT _{margin}	15.7 °C
EGT _{max}	599.4 °C			EGT _{max}	605.6 °C		
PB _{min}	3.86 bar			PB _{min}	3.95 bar		
PB _{COR}	3.90 bar			PB _{COR}	4.09 bar		
GENSL	156.8 kVA	GENSL _{margin}	0.8 kVA	GENSL	156.5 kVA	GENSL _{margin}	0.5 kVA
GENSL _{min}	156.0 kVA			GENSL _{min}	156.0 kVA		
IGV Pos. Min.	7.3 DEG			IGV Pos. Min.	4.5 DEG		
IGV Position	12.2 DEG			IGV Position	9.3 DEG		
IGV Pos. Max.	12.3 DEG			IGV Pos. Max.	9.5 DEG		
WB _{COR}	458.1 lb/min	WB _{margin}	7.5 lb/min				
WB _{min}	450.6 lb/min						
WF _{COR}	291.5 KG/hr	WF _{margin}	11.5 KG/hr				
WF _{max}	303.0 KG/hr						

System Performance			
Max Vib during Funtional Test	GEARBOX	≤ 0.65 in/sec	= 0.22 in/sec
	TURBINE	≤ 1.00 in/sec	= 0.40 in/sec
	START/GEN	≤ 1.00 in/sec	= 0.47 in/sec
Oil Consumption		≤ 0.01 ltr/hr	= 0.00 ltr/hr
	Start	AUTOMATIC START TIME	≤ 120 sec = 61.8 sec
	Oil Level	INITIAL OIL LEVEL (TS011)	< 0 % = -10.5 %
	ADD OIL LEVEL (TS012)	8,1 to 20,3 %	= 16.2 %
	FULL OIL LEVEL (TS013)	81,2 to 94,2 %	= 87.6 %
Offset	DPOP Offset	-0,02 to 0.02	= 0.010
	ECS Offset	0 to 5	= 4.933
	MES Offset	0 to 5	= 4.827

General Characteristics	
TOTAL NUMBERS OF STARTS DURING ATP	= 11
AUTOMATIC START TEST OF 4 SUCCESS STARTS IN A ROW ACCOMPLISHED	= YES
MES TERMINATION TEST OKAY?	= YES
STABILITY CHECK ACCOMPLISHED	= YES
FADEC FAULTS	= NO
OIL FILTER INSPECTION	= OK
MAGNETIC PLUG	= OK
FUEL FILTER INSPECTION	= OK
OIL TYPE	= ETO2197
FUEL TYPE	= JetA1
FUELSYSTEM INHIBITED WITH OIL PER MIL-L-6081 GRADE 1010	= YES, 25-Nov-25
TOTAL RUNNING TIME	= 159 min
ACCESSORIES CHANGED	= NO

ESM Revision No. **10, SEP 11 / 25** **ATP RUN ACCOMPLISHED**

Remarks **NONE**

Summary Revision No. **0** Reason for Summary Revision **First Edition**

Issued by **HAM T/EO252** Issue Date **25-Nov-2025**

Distribution **2AJ T/EO25** MECH C **57969** LEAD TESTER C **26110**

TEST DATA SHEET

HGT1700A

DATE **Nov 25, 25**

APU S/N **P-00135**

DESCRIPTION	IDENT	UNITS		READY TO LOAD		SHAFT ONLY LOAD		ECS		MES		
		METRIC	US	METRIC	US	METRIC	US	METRIC	US	METRIC	US	
BAROMETRIC PRESSURE	PBAR	MBAR	PSIA	994	14.424	994	14.424	995	14.426	995	14.428	
AVERAGE INLET TEMPERATURE	T1	°C	°F	5.6	42.1	5.5	41.9	5.7	42.3	5.8	42.4	
UNIT INLET TEMPERATURE (T2)	T2	°C	°F	N/A	N/A	N/A	N/A	5.6	42.1	5.7	42.3	
OIL PRESSURE	POIL	MBAR	PSIG		72.2		71.0		73.2		73.2	
OIL TEMPERATURE - LUBE PUMP DISH.	TOIL	°C	°F	83.4	182.1	88.3	190.9	89.6	193.3	89.8	193.6	
GEARBOX PRESSURE - SUMP	PSGBX	MBAR	PSID	1.0	0.0	0.0	0.0	0.0	0.001	1.0	0.011	
TURBINE DISCHARGE	RAKE 1	TTDEA	°C	°F	340.1	644.2	380.8	717.4	533.6	992.5	542.8	1009.0
TEMPERATURE	RAKE 2	TTDEB	°C	°F	345.0	653.0	385.1	725.18	505.4	941.7	514.5	958.1
(UN) RAKES	RAKE 3	TTDEC	°C	°F	345.2	653.4	391.1	736.0	524.2	975.6	530.7	987.3
EXHAUST GAS TOTAL TEMPERATURE (LAB-AVG)	ACTUAL	T58	°C	°F	343.1	649.6	395.8	744.4	531.5	988.7	539.7	1003.5
	CORRECTED*	EGTCOR	°C	°F					580.8	1077.5	589.9	1093.8
BLEED AIR ORIFICE INLET PRESSURE	PBORFA	BAR	PSIG					3.1	45.6	3.4	48.9	
BLEED AIR ORIFICE INLET TEMPERATURE	TBORFA	°C	°F					185.5	366.0	188.6	371.5	
BLEED AIR ORIFICE DELTA P	PDBORA	MBAR	PSIG					299	4.337	107	1.552	
EXHAUST STATIC PRESSURE	PS9	MBAR	PSIG					-2.0	-0.026	-3.0	-0.044	
IGV POSITION **	IGVPOS	DEG	DEG					12.2	12.2	9.3	9.3	
CORRECTED DISCHARGE BLEED AIRFLOW	WBCDNA	KG/S	LB/MIN					1.17	155.16	0.71	93.26	
BLEED AIRFLOW	ACTUAL	WB	KG/S	LB/MIN				3.857	510.2	2.398	317.2	
	CORRECTED*	WBCOR	KG/S	LB/MIN				3.463	458.1	2.174	287.6	
BLEED TOTAL PRESSURE	ACTUAL	PB	BAR	PSIG				4.2	46.6	4.4	49.0	
	CORRECTED*	PBCOR	BAR	PSIG				3.90	56.5	4.09	59.3	
BLEED TEMPERATURE	ACTUAL	TB	°C	°F				186.8	368.2	190.9	375.5	
	CORRECTED*	TBCOR	°C	°F				217.7	423.8	222.6	432.7	
FUEL CONSUMPTION	ACTUAL	WF	KG/HR	LB/HR				307.6	678.1	313.6	691.3	
	CORRECTED*	WFCOR	KG/HR	LB/HR				291.5	642.7	297.7	656.3	
GENERATOR OUTPUT (AT TERMINALS)	PWGEN	KVA	KVA			154.2		154.0		153.7		
GENERATOR OUTPUT CORRECTED	GENSL	KVA	KVA			157.1		156.8		156.5		
UNIT VIBRATION	GEARBOX	VIBGBB		IN/SEC		0.22		0.19		0.21		0.20
	TURBINE	VIBTVA		IN/SEC		0.38		0.32		0.38		0.40
	START/GEN	VIBSGVA		IN/SEC		0.22		0.40		0.47		0.47
APU SPEED	XNL	RPM	RPM	36622		36624		39042		39043		
DIGITAL DATA SCAN	TIME		20:21:52		20:33:22		20:48:04		21:01:12			
	DATE		24.11.2025		24.11.2025		24.11.2025		24.11.2025			
DIGITAL DATA POINT NO.	---		1		2		3		4			

* DATA CORRECTED TO 38 °C (100.4 °F) , INSTALLED , SEA LEVEL CONDITIONS

** RELATIVE TO 0 DEGREE BEING FULL OPEN

WARNING

NO OIL IN OILTANK / GEARBOX

Please Refill before Operation

Used Oil Type for Test S/N: P-00135

- Mobil Jet Oil II ETO 2389 Aero Shell 390
 Mobil Jet Oil 387 ETO2380 Other: _____
 TN 600 ETO 2197

Performed Date (DD / MM / YY) 25 / 11 / 25

Department / Mechanic : LHT HAM T/EO252 / 26110



Lufthansa Technik

Engine Testcell

Engine Type / S/N : HGT1700 / P- 00135

EM 70720041-00
49-24-97

THE FUELSYSTEM OF THIS ENGINE HAS BEEN INHIBITED WITH
OIL PER MIL-PRF-6081 GRADE 1010.

Performed Date (DD / MM / YY) : 25 / 11 / 25

Department / Mechanic : HAM T/EO252 / 26110



Lufthansa Technik

Engine Shop Visit Documentation



Log Book (Copy of pages)

HGT1700
ESN: P-00135

APU Service Record

Engine Type		Engine P/N	Engine S/N	Operator		
HGT1700A		70720041-00	P-00135	2AJ		
Event No	Revision No.	Date of Induction	TT as received	TC as received		
T604189	604189	24.11.2025	3028:59	1779		
At date of certificate	TT	TC	TSO	CSO	TSR	CSR
	3031:39	1790	3031:39	1790	2:40	11

Workscope

 Unit has been: **INSPECTED AND TESTED.**

Work performed in accordance with Component Maintenance Publication P/N 70720041-00, ATA 49-24-97, Issue No. 010.

Replaced modules
 NONE
 Load
 Power
 Gearbox

Installed modules S/N
Load: LA062146
Power: LA062148
Gearbox: LA062147

Notes

NO EASA AND/OR FAA ADs APPLICABLE.

Unit was preserved i.A.w. CMP 49-24-97, Storage procedures and data / SB 49-8028, for 24 months storage.

Before operating this unit, Customer has to perform the following action in addition to the applicable instructions:

- Remove all caps from drain bosses and covers from inlets and outlets and remove the desiccant bags from the APU exhaust, if any
- If any, Install missing items per applicable manual. Refer to Missing Parts List.
- Refill oil system i.a.w. applicable manual. This unit was shipped without oil.
- De-Preserve the fuel system i.a.w. applicable manual. The fuel system was preserved per applicable manual.

Certificate / Approval Ref. No.

EASA: DE.145.0001, FAA: DLAY225D, other valid approvals see LHT DOC.15458

Issued by / Stamp	433916 Gönüllü T/EO42	Issue No.	Date of issue
		Initial issue	25.11.2025

APU Service Record



Lufthansa Technik

Engine S/N: P-00135

Event No: 604189

Rev: 604189

Engine TT: 3028:59

Engine TC: 1779

Traceable Life Limited / Life Controlled Parts (OFF: as removed, ON: as installed - prior to APU test run)

Part Name	P/N OFF	S/N OFF	HRS:MIN OFF	CYC OFF	P/N ON	S/N ON	HRS:MIN ON	CYC ON
Compressor Impeller, EC, First Stage	70720029-1	14-182449-13389	not disassembled	not disassembled	70720029-1:99193	no Change	no Change	no Change
Compressor Impeller, EC, Second Stage	3822341-5	1518244916790	not disassembled	not disassembled	3822341-5:99193	no Change	no Change	no Change
Turbine Disk, First Stage	3842152-1	14-168522-09254	not disassembled	not disassembled	3842152-1:99193	no Change	no Change	no Change
Turbine Disk, Second Stage	3842156-1	14-168522-09362	not disassembled	not disassembled	3842156-1:99193	no Change	no Change	no Change
Turbine Rotor Assy, Third Stage	3842160-6	15-156101-02915	not disassembled	not disassembled	3842160-6:99193	no Change	no Change	no Change
Compressor Impeller, LC	70720128-1	14-182449-14362	not disassembled	not disassembled	70720128-1:99193	no Change	no Change	no Change

Status Line Replaceable Units – Nameplate Data Controlled

Item	P/N	S/N	Status
Fuel Control Unit	70720165-1	70720165-10391	0B
Starter Generator	70720176-3	70720176-30394	0B
Valve, Bleed	70721870-1	70721870-10048	0B
Valve, Surge Control	3290814-6	3290814-2177	0B
IGV Actuator	3886188-3	12146	0B
3-Way Pressure Module	3876337-1	15-11214-00429	0B
Data Memory Module	70720170-3	70720170-30153	0B

Item	P/N	S/N	Status
Ignition Exciter	3888058-8	2316250400620	0B
Motional Transducer (Speed Sensor)	not accessible	not accessible	0B
Oil Cooler	70720249-1	70720249-10145	0B
 	 	 	
 	 	 	
 	 	 	

Status: 0-A=Visual Inspect and Test during ATP Run; 0-B=Test during ATP Run; 1=Bench Test; 2=Repaired; 3=Overhauled; 5=New; E=Exchange

Issued by / stamp

F. Müller

433818
Göndör
T/EO421

Issue No.

Initial Issue

Date of issue

2-Dec-2025

Service Bulletin Status



Lufthansa Technik

Issue as of Date 01 02.DEC.2025

APU Serial No.

HGT1700A:99193 P-00135

APU Total Time
APU Total Cycles

3031:39 OPH
1790 OPC

Document	R/I	Description	Type	Subassy	RP	Status	Remarks
CMP CS 25.1535-C-000-0053	10	ETOPS REQUIREMENTS SUMMARY FOR HGT1700 APU	INS	APU	X	24.11.2025	
MPD	11	ETOPS REQUIREMENTS SUMMARY FOR HGT1700 APU	INS	APU	X	24.11.2025	
SBC HGT1700-49-8156	00	REPL. AFT FRAME PN 70720138-3 WITH -4	MOD	PSA		PERF.PRO	
SBC HGT1700-49-8157	00	REPL. LC SCROLL HOUSING PN 70720131-4 WITH -5	MOD	LCA		PERF.PRO	
SBC HGT1700-49-8158	00	REPL. BEARING SUPPORT HOUSING PN70720601-1 WITH -2	MOD	LCA		PERF.PRO	
SBC HGT1700-49-8159	00	REPL. OIL TANK PN 70720124-1 WITH 70721572-1	MOD	GBX		PERF.PRO	
SBC HGT1700-49-8160	00	REPL. MID SUMP SCAV TUBE PN 70720282-2 WITH -3	MOD	APU		PERF.PRO	
SBC HGT1700-49-8181	01	REPL. LUBE JET ADAPTER PN 70720330-3 WITH -4	MOD	GBX		PERF.PRO	
SBC HGT1700-49-8197	00	REPL. FASTENERS ON BLEED DUCT/ SCROLL INTERFACE	MOD	APU		PERF.PRO	
SBC HGT1700-49-8238	01	REPL. IGNITER PLUG LEAD PN 3876132-15 WITH -16	MOD	APU		OPEN	ON ATTRITION ACC. WPG REV.10
SBC HGT1700-49-8239	01	REPL. FIRE BLANKET BRACKET PN 70721729-1 WITH -2	MOD	APU		OPEN	ON ATTRITION ACC. WPG REV.10
SBC HGT1700-49-8240	00	REMOVE EXHAUST CONE PN 70720140-2	MOD	PSA		PCW	
SBC HGT1700-49-8241	00	REPL. SPACERS, ADD BRACKETS AND CLAMPS	MOD	APU		22.06.2023	
SBC HGT1700-49-8317	00	REPL. T2 NOZZLE ASSY PN 3844471-7 WITH -8	MOD	PSA		OPEN	OPTIONAL ACC. WPG REV.10
SBC HGT1700-49-8322	00	REPL. OIL LVL SENSOR PN 70720171-1 WITH -2	MOD	GBX		OPEN	OPTIONAL ACC. WPG REV.10
SBC HGT1700-49-8327	00	SER.8 WEIGHT REDUCTION VIA TUBES, CLAMPS, BRACKETS	MOD	APU		OPEN	OPTIONAL ACC. WPG REV.10
SBC HGT1700-49-8354	00	REPL. LEFT/RIGHT BUFFER AIR TUBES	MOD	APU		15.06.2023	
SBC HGT1700-49-8372	00	REPL IGNITION UNIT PN 3888058-8 WITH PN 70721353-1	MOD	APU		OPEN	OPTIONAL ACC. WPG REV.10



Lufthansa Technik

Engine Shop Visit Documentation



Shop Findings Report

HGT1700
ESN: P-00135

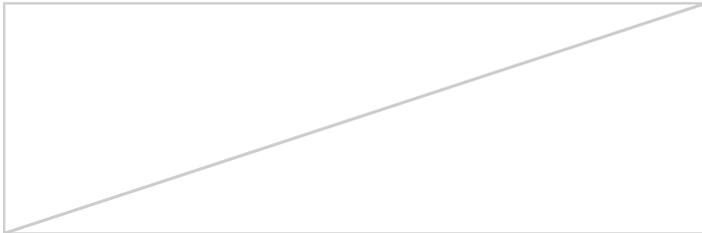
Customer:	A. J. Walter Aviation LTD		Date of report:	2-Dec-2025	
Operator:	N/A		Event:	604189	
Aircraft registration:	N/A	A/C Type:	N/A	A/C MSN:	N/A
Aircraft Series ID:	N/A	A/C ID:	N/A	Op. A/C internal ID:	N/A
Aircraft TT:	N/A			A/C TC:	N/A

APU PN:	70720041-00	APU SN:	P-00135	APU Series:	5
Date of removal:	N/A	AUN:	78714710	Revision:	604189
TSN:	3028:59	TSI:	228:30	TSR:	0:00
CSN:	1779	CSI:	283	CSR:	0

Customer removal reason:	Lease Return			
Geographical or electrical location:	N/A	Supplier removal type code:	N/A	

Failed piece / part:	N/A	P/N:	N/A	S/N:	N/A
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PRIMARY FINDINGS



CUST. REMOVAL REASON CONFIRMED	N/A
JUSTIFIED REMOVAL	N/A
ROOT CAUSE APU (EXCL. LRUs)	N/A
FAILURE/ FAULT PRESENT	N/A
KNOWN FAILURE MODE	N/A
INVESTIGATION REPORT	NO
ATTACHMENTS	NO

APU FAILURE / FINDINGS SUMMARY

APU Lease Return

Leading edges of First Stage Turbine Nozzle Assy and First Stage Turbine Rotor Assy are eroded, within AMM limit. Second Stage Compressor Housing shows shroud impacts, also serviceable acc. to AMM. Otherwise, APU was found without any abnormal findings at incoming and borescope inspection. APU was inspected and successfully tested acc. to applicable manuals, and found to be serviceable.

PREPARED	ISSUED
Dominik Wittemann Product & Design Engineer	Marcel Bederke Product Engineer



MODIFICATION STATUS REPORT

EVENT N°

604189

Doc Type	Document No.	Description	Rev/ Issue	Modif./ Insp.	Status	Date
SBC	HGT1700-49-8156	REPL. AFT FRAME PN 70720138-3 WITH -4	00	MOD	PERFORMED DURING PRODUCTION	
SBC	HGT1700-49-8157	REPL. LC SCROLL HOUSING PN 70720131-4 WITH -5	00	MOD	PERFORMED DURING PRODUCTION	
SBC	HGT1700-49-8158	REPL. BEARING SUPPORT HOUSING PN 70720601-1 WITH -2	00	MOD	PERFORMED DURING PRODUCTION	
SBC	HGT1700-49-8159	REMOVE AND REPLACE OIL TANK, PN 70720124-1 WITH PN 70721572-1	00	MOD	PERFORMED DURING PRODUCTION	
SBC	HGT1700-49-8160	REPL. MID SUMP SCAV TUBE PN 70720282-2 WITH -3	00	MOD	PERFORMED DURING PRODUCTION	
SBC	HGT1700-49-8181	REPL. LUBE JET ADAPTER PN 70720330-3 WITH -4	01	MOD	PERFORMED DURING PRODUCTION	
SBC	HGT1700-49-8197	REPL. FASTENERS ON BLEED DUCT/ SCROLL INTERFACE	00	MOD	PERFORMED DURING PRODUCTION	
SBC	HGT1700-49-8238	REPL. IGNITER PLUG LEAD PN 3876132-15 WITH -16	01	MOD	OPEN	
SBC	HGT1700-49-8239	REPL. FIRE BLANKET BRACKET PN 70721729-1 WITH -2	01	MOD	OPEN	
SBC	HGT1700-49-8240	REMOVE EXHAUST CONE PN 70720140-2	00	MOD	PREVIOUSLY COMPLIED WITH	
SBC	HGT1700-49-8241	REPL. SPACERS, ADD BRACKETS AND CLAMPS	00	MOD	PERFORMED DURING FORMER SHOP EVENT	22-Jun-23
SBC	HGT1700-49-8317	REPL. SECOND STAGE NOZZLE ASSEMBLY PN 3844471-7 WITH -8	00	MOD	OPEN	
SBC	HGT1700-49-8322	REPL. OIL LEVEL SENSOR PN 70720171-1 WITH -2	00	MOD	OPEN	
SBC	HGT1700-49-8327	REPL. CLAMPS, BOLTS, SPACER, BRACKETS, RETAINER & TUBES	00	MOD	OPEN	
SBC	HGT1700-49-8354	REPL. BUFFER AIR TUBE PN 70720296-1 WITH PN 70724141-1 & PN 70720297-1 WITH PN 70724142-1	00	MOD	PERFORMED DURING FORMER SHOP EVENT	15-Jun-23
SBC	HGT1700-49-8372	REPL. IGNITION EXCITER PN 3888058-8 WITH PN 70721353-1	00	MOD	OPEN	

**INCOMING FUNCTIONAL TEST RESULTS**

APU was not pre-tested due to customer work scope.

FINDINGS UPON ARRIVAL**General:**

shipping container is a:	wood box
shipping container:	no visible findings
APU external condition:	no visible findings
engine mounts:	findings
engine rotation:	smooth
igniter unit:	no visible findings
engine harnesses:	no visible findings
insulation blankets:	no visible findings
missing external hardware	no

Air System:

inlet path:	no visible findings
exhaust area:	no visible findings
IGV mechanism:	normal operation
inlet plenum:	no visible findings
inlet screen:	no visible findings

Oil System:

oil tubes/manifolds condition:	no visible findings
oil cooler blockage (air side):	no
oil condition:	no oil
magnetic chip detector condition:	normal
mid. sump chip plug condition:	normal
aft. sump chip plug condition:	normal
generator fwd. chip plug condition:	normal
generator aft. chip plug condition:	normal
bearing oil drain port condition:	dry
gearbox vent:	dry

Fuel System:

fuel tubes/manifolds condition:	no visible findings
fuel filter:	no visible findings
fuel manifold seals:	no visible findings

INCOMING BORESCOPE FINDINGS

Combustor Chamber	no abnormal findings
Compressor Deswirl, EC Second Stage	no abnormal findings
Compressor Diffuser, EC First Stage	no abnormal findings
Compressor Diffuser, EC Second Stage	no abnormal findings
Compressor Diffuser, LC	no abnormal findings
Compressor Housing, EC Second Stage	Shroud impacts (serviceable acc. to AMM)
Compressor Impeller Shroud, LC	no abnormal findings
Compressor Impeller, EC, First Stage	no abnormal findings
Compressor Impeller, EC, Second Stage	no abnormal findings
Compressor Impeller, LC	no abnormal findings
Compressor Shroud, EC First Stage	no abnormal findings
Turbine Blade, First Stage	L/E eroded (serviceable acc. to AMM)
Turbine Nozzle, Segment First Stage	L/E eroded (serviceable acc. to AMM)



APU SHOP VISIT HISTORY

Date of last shop visit: 19-Sep-24
 Findings / Work scope: EGT Thermocouple / GBX, LC, PS: Light Repair (Visual Inspection)
 Revision N°: 603410
 Aircraft: SE-RSC
 Customer: A. J. Walter Aviation
 Removal Reason: Lease Return
 TSN / TSR: 3026:44 / 223:53
 CSN / CSR: 1774 / 274

MODULE CONFIGURATION	LOAD COMPRESSOR MODULE	POWER SECTION MODULE	GEARBOX
INCOMING S/N	LA062146	LA062148	LA062147
OUTGOING S/N	LA062146	LA062148	LA062147

PERFORMED WORK SCOPE

Perform always Perform modifications acc. to page 2 of this report
 Perform ATP Run in accordance with Honeywell CMP 49-24-97
 Perform necessary preservation for long time storage

LRUs Visual Inspection and Test at APU ATP Run Acc. to Work Scope Planning Guide
 Clean and inspect oil cooler
 Additional work scope notes LRU: **NO** Warranty
 LRU work scope as necessary to address the induction inspection findings.

Gearbox Interface Inspection (Light Repair*) Medium Repair* Heavy Repair (Overhaul)*
 Replace Air/Oil Separator Carbon Seal.
 Additional work scope notes Gearbox: **NO** Warranty
 Module left in assembled condition as is. Module and accessible parts visually inspected.

Load Section Interface Inspection (Light Repair*) Medium Repair* Heavy Repair (Overhaul)*
 Replace Carbon Seal and Inspect/Replace Labyrinth Seals
 Replace Bearings
 Additional work scope notes Load Compressor Section: **NO** Warranty
 Module left in assembled condition as is. Module and accessible parts visually inspected.

Power Section Interface Inspection (Light Repair*) Medium Repair* Heavy Repair (Overhaul)*
 Replace Carbon Seals and Inspect/Replace Labyrinth Seals
 Replace Bearings
 Additional work scope notes Power Section: **NO** Warranty
 Module left in assembled condition as is. Module and accessible parts visually inspected.

*refer to HGT1700 Level II CMP ATA49-24-90

NOTE This event is not covered by warranty due to the expiration of warranty coverage after 48 months from APU delivery or 6000 APU operating hours, whichever comes first.



Description	PN	Findings	Disposition	TT	TC
<u>Gas Turbine Engine Assy</u>					
Fuel Manifold, Primary	70720300-1		not disassembled		
Fuel Manifold, Secondary	70720299-1		not disassembled		
Air Inlet Screen, Lower	not accessible		not disassembled		
Air Inlet Screen, Upper	not accessible		not disassembled		
Duct, Bleed	not accessible		not disassembled		
Duct, Surge Air	not accessible		not disassembled		
Inlet Duct, Lower	not accessible		not disassembled		
Inlet Duct, Upper	not accessible		not disassembled		
Quill Shaft, Gearbox	not accessible		not disassembled		
Quill Shaft, Load Compressor	not accessible		not disassembled		
Starter Generator Seal Plate	not accessible		not disassembled		
Fuel Control Unit	70720165-1		not disassembled	3028:59	1779
Starter Generator	70720176-3		not disassembled	3028:59	1779
Switch, Low Fuel Pressure	3876187-4		not disassembled		
Valve, Surge Control	3290814-6		not disassembled	3028:59	1779
Valve, Bleed	70721870-1		not disassembled	3028:59	1779
Valve, Pressure Relief	968214-6		not disassembled		
Oil Cooler	70720249-1		not disassembled	3028:59	1779
3-Way Pressure Module	3876337-1		not disassembled	3028:59	1779
Ignition Exciter	3888058-8		not disassembled	3028:59	1779
Igniter Plug	70721452-1		not disassembled		
EGT Thermocouple	70720273-1		not disassembled	3028:59	1779
EGT Thermocouple	70720273-1		not disassembled	3028:59	1779
EGT Thermocouple	70720273-1		not disassembled	3028:59	1779
Lead, Igniter Plug	3876132-15		not disassembled		
Data Memory Module	70720170-3		not disassembled	3028:59	1779
Chip Detector	3876189-2		not disassembled		
IGV Actuator	3886188-3		not disassembled	3028:59	1779
Motional Transducer (Speed Sensor)	not accessible		not disassembled	3028:59	1779
<u>Plumbing and Electrical Assy</u>					
Hose and Tube Assy, Oil Cooler Return	not accessible		not disassembled		
Hose and Tube Assy, Oil Cooler Supply	not accessible		not disassembled		
Hose and Tube Assy, Fuel Supply	not accessible		not disassembled		
Hose and Tube Assy, Fuel Return	not accessible		not disassembled		
Hose and Tube Assy, Fuel Supply Primary	not accessible		not disassembled		
Hose and Tube Assy, Fuel Supply Secondary	not accessible		not disassembled		
Hose and Tube Assy, Fuel Drain FCU	not accessible		not disassembled		
Tube, E/C Buffer Supply	not accessible		not disassembled		



SHOP FINDINGS

EVENT N°

604189

Description	PN	Findings	Disposition	TT	TC
Turbine Nozzle, Segment First Stage	not accessible		not disassembled		
Turbine Nozzle, Segment First Stage	not accessible		not disassembled		
Turbine Nozzle, Segment First Stage	not accessible		not disassembled		
Turbine Nozzle, Segment First Stage	not accessible		not disassembled		
Turbine Nozzle, Segment First Stage	not accessible		not disassembled		
Turbine Shroud Segment, First Stage	not accessible		not disassembled		
Turbine Shroud Segment, First Stage	not accessible		not disassembled		
Turbine Shroud Segment, First Stage	not accessible		not disassembled		
Turbine Shroud Segment, First Stage	not accessible		not disassembled		
Turbine Shroud Segment, First Stage	not accessible		not disassembled		
Turbine Shroud Segment, First Stage	not accessible		not disassembled		
Turbine Shroud Segment, First Stage	not accessible		not disassembled		
Turbine Shroud Segment, First Stage	not accessible		not disassembled		
Turbine Shroud Segment, First Stage	not accessible		not disassembled		
Turbine Shroud Segment, First Stage	not accessible		not disassembled		
Turbine Shroud Segment, First Stage	not accessible		not disassembled		
Turbine Nozzle Support, First Stage	not accessible		not disassembled		
Turbine Nozzle Assy, Second Stage	not accessible		not disassembled		
Turbine Nozzle, Segment Second Stage	not accessible		not disassembled		
Turbine Nozzle, Segment Second Stage	not accessible		not disassembled		
Turbine Nozzle, Segment Second Stage	not accessible		not disassembled		
Turbine Nozzle, Segment Second Stage	not accessible		not disassembled		
Turbine Nozzle, Segment Second Stage	not accessible		not disassembled		
Fuel Nozzle, Primary	70720322-4		not disassembled		
Fuel Nozzle, Primary	70720322-4		not disassembled		
Fuel Nozzle, Primary	70720322-4		not disassembled		
Fuel Nozzle, Primary	70720322-4		not disassembled		
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Fuel Nozzle, Primary	70720322-4		not disassembled		
Fuel Nozzle, Primary	70720322-4		not disassembled		
Fuel Nozzle, Primary	70720322-4		not disassembled		
Fuel Nozzle, Secondary	70720323-3		not disassembled		
Fuel Nozzle, Secondary	70720323-3		not disassembled		
Fuel Nozzle, Secondary	70720323-3		not disassembled		
Fuel Nozzle, Secondary	70720323-3		not disassembled		
Fuel Nozzle, Secondary	70720323-3		not disassembled		
Fuel Nozzle, Secondary	70720323-3		not disassembled		
Fuel Nozzle, Secondary	70720323-3		not disassembled		

Power Section Rotating Group

Tie Shaft, PS	not accessible		not disassembled		
Coupling, Shaft, PS	not accessible		not disassembled		
Seal, Labyrinth, PS	not accessible		not disassembled		
Compressor Impeller, EC, First Stage	70720029-1		not disassembled	3028:59	1779



SHOP FINDINGS

EVENT N°

604189

Description	PN	Findings	Disposition	TT	TC
Compressor Impeller, EC, Second Stage	3822341-5		not disassembled	3028:59	1779
Rotating Seal, EC	not accessible		not disassembled		
Turbine Rotor Assy, First Stage	3842151-3		not disassembled	3028:59	1779
Turbine Disk, First Stage	3842152-1		not disassembled	3028:59	1779
Turbine Disk Seal Plate, First Stage	not accessible		not disassembled		
Turbine Blade, First Stage	not accessible		not disassembled		
Coupling, Seal, PS	not accessible		not disassembled		
Turbine Rotor Assy, Second Stage	3842155-4		not disassembled	3028:59	1779
Turbine Disk, Second Stage	3842156-1		not disassembled	3028:59	1779
Turbine Disk Rotating Seal, Second Stage	not accessible		not disassembled		
Turbine Blade, Second Stage	not accessible		not disassembled		
Rotating Seal, Turbine	not accessible		not disassembled		
Turbine Rotor Assy, Third Stage	3842160-6		not disassembled	3028:59	1779
<u>Load Compressor Assy</u>					
Load Compressor Module	70720106-1		not disassembled	3028:59	1779
Mount, Fwd RH	not accessible		not disassembled		
Mount, Fwd LH	not accessible		not disassembled		
Mount Housing	not accessible		not disassembled		
Bearing Carrier, LC Roller Bearing	not accessible		not disassembled		
Bearing Support Housing, LC	not accessible		not disassembled		
Bearing Retainer, Ball, LC	not accessible		not disassembled		
Seal Assembly, Roller Bearing, LC	not accessible		not disassembled		
Compressor Diffuser, LC	not accessible		not disassembled		
Bearing Retainer, LC	not accessible		not disassembled		
Seal Assy, Ball Bearing, LC	not accessible		not disassembled		
IGV Actuator Rod	not accessible		not disassembled		
Scroll Housing	not accessible		not disassembled		
Compressor Impeller Shroud, LC	not accessible		not disassembled		
Gear, Ring, IGV	not accessible		not disassembled		
Vane, IGV, Regular	not accessible		not disassembled		
Vane, IGV, Dewhistler	not accessible		not disassembled		
Inlet Housing, LC	not accessible		not disassembled		
Inlet Guide Vane Housing	not accessible		not disassembled		
Gear, Sector	not accessible		not disassembled		
Bearing, Ball, LC	not accessible		not disassembled	3028:59	1779
Bearing, Roller, LC	not accessible		not disassembled	3028:59	1779
<u>Load Compressor Rotating Group</u>					
Rotating Group, Load Compressor Assembly	NONPROC004		not disassembled	3028:59	1779
Seal, Labyrinth, LC	not accessible		not disassembled		



SHOP FINDINGS

EVENT N°

604189

Description	PN	Findings	Disposition	TT	TC
Compressor Impeller, LC	70720128-1		not disassembled	3028:59	1779
Coupling, Seal, LC	not accessible		not disassembled		
Tie Shaft, LC	not accessible		not disassembled		
<u>Gearbox Assy</u>					
Gearbox Module	70720105-2		not disassembled	3028:59	1779
Gearbox Housing - Matched Set	not accessible		not disassembled		
Filter Module, Engine	not accessible		not disassembled		
Filter Module, Generator	not accessible		not disassembled		
Oil Fill Module Housing	not accessible		not disassembled		
Oil Tank	not accessible		not disassembled		
Oil Pickup Tube	not accessible		not disassembled		
Seal Adapter, Air/Oil Separator	not accessible		not disassembled		
Seal, Air/Oil Separator	not accessible		not disassembled		
Lube Jet Adapter	not accessible		not disassembled		
Transfer Tube, Oil	not accessible		not disassembled		
Bearing, Ball, Air/Oil Separator	not accessible		not disassembled	3028:59	1779
Bearing, Ball, Lube Pump	not accessible		not disassembled	3028:59	1779
Bearing, Roller, Generator Gear	not accessible		not disassembled	3028:59	1779
Bearing, Roller, Generator Gear	not accessible		not disassembled	3028:59	1779
Bearing, Roller, High Speed Pinion	not accessible		not disassembled	3028:59	1779
Bearing, Roller, High Speed Pinion	not accessible		not disassembled	3028:59	1779
Gear, Air/Oil Separator	not accessible		not disassembled		
Air Oil Separator Rotor	not accessible		not disassembled		
Seal, Rotating, Air/Oil Separator	not accessible		not disassembled		
Gear, High Speed Pinion	not accessible		not disassembled		
Gear, Generator	not accessible		not disassembled		
Gear, Lube Pump	not accessible		not disassembled		
Sensor, Oil Level	70720171-2		not disassembled		
Sensor, Oil Temp	not accessible		not disassembled		
Sensor, Oil Temp	not accessible		not disassembled		
Switch, Delta P	not accessible		not disassembled		
Switch, Delta P	not accessible		not disassembled		
Switch, Low Oil Pressure	not accessible		not disassembled		
Oil Pump	70720141-1		not disassembled	3028:59	1779
Valve, Pressure Regulator And Relief	70720175-1		not disassembled		
Thermostat	not accessible		not disassembled		



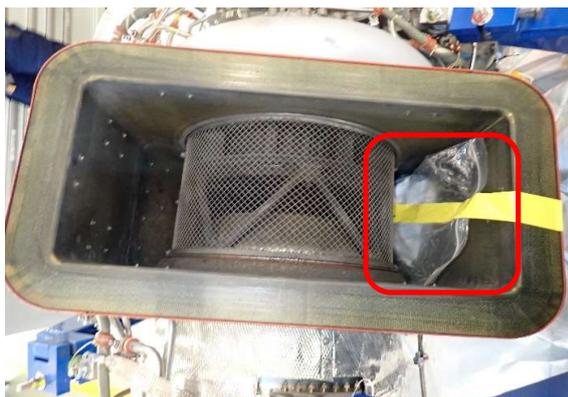
INCOMING PICTURE 1

HGT1700A Transport Box at incoming inspection



INCOMING PICTURE 2

HGT1700A (70720041-00) at incoming inspection



INCOMING PICTURE 3

APU Inlet Duct found with desiccant bag at incoming inspection



INCOMING PICTURE 4

HGT1700A Aft Section - No abnormal findings / no excessive wear



INCOMING PICTURE 5

Chip Collectors - No abnormal findings / no excessive wear



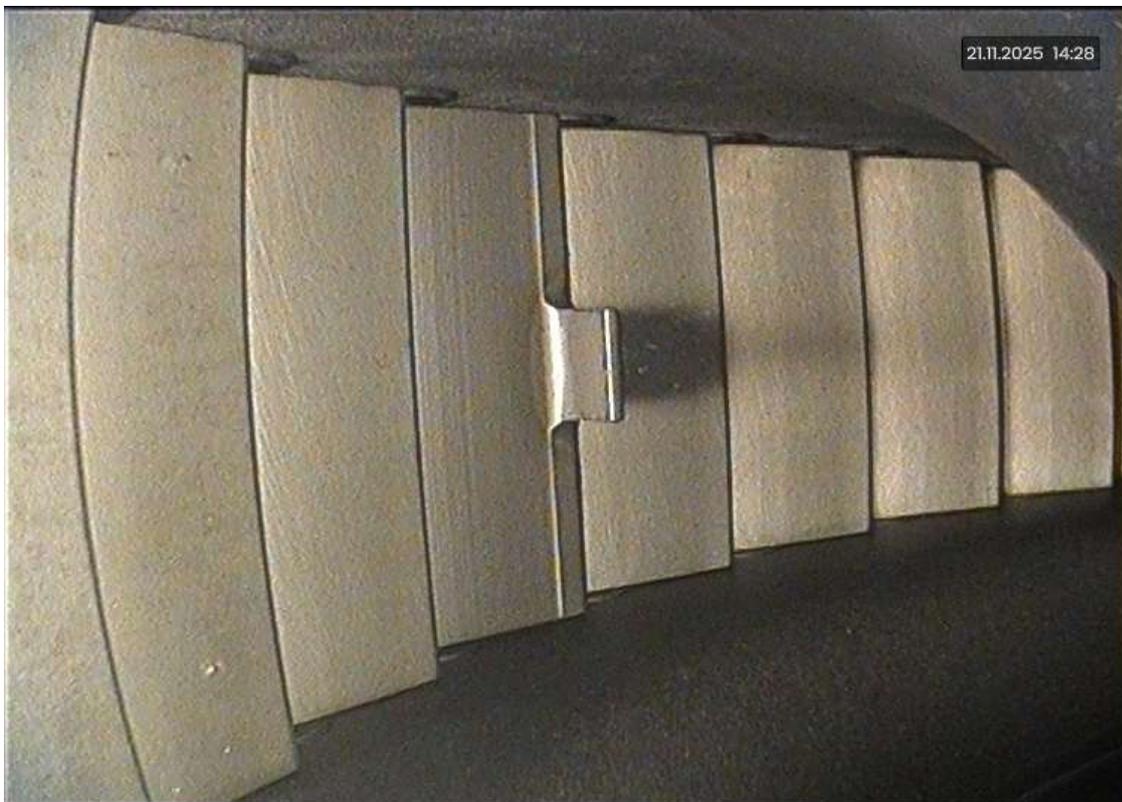
INCOMING PICTURE 6

Chip Detector (3876189-2) - No abnormal findings / no excessive wear



BORESCOPE PICTURE 1

HGT1700A Inlet Duct - No abnormal findings / no excessive wear



BORESCOPE PICTURE 2

Inlet Guide Vane Group (NONPROC006) - No abnormal findings / no excessive wear



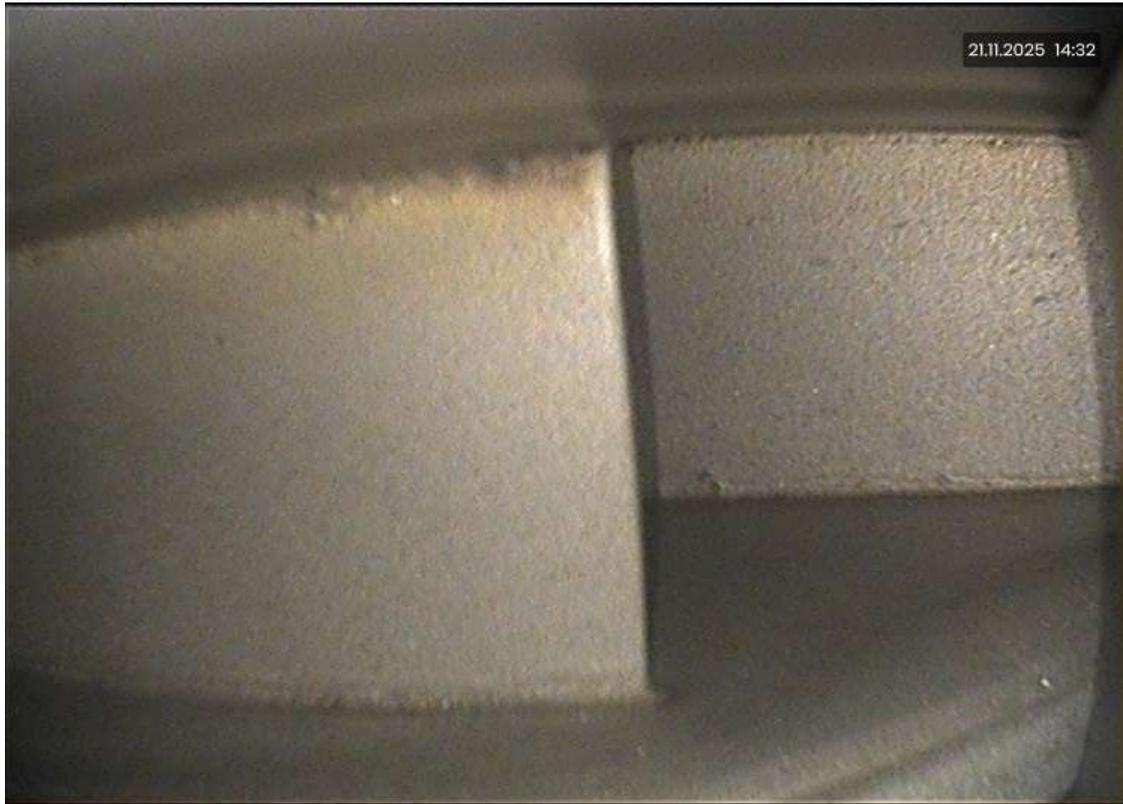
BORESCOPE PICTURE 3

Impeller, EC, First Stage (70720029-1) - No abnormal findings / no excessive wear



BORESCOPE PICTURE 4

Impeller, LC (70720128-1) - No abnormal findings / no excessive wear



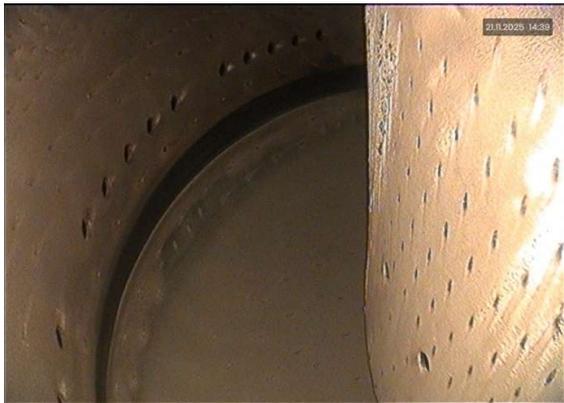
BORESCOPE PICTURE 5

Diffuser, EC, First Stage (70720031-1) - No abnormal findings / no excessive wear



BORESCOPE PICTURE 6

Deswirl, EC Second Stage (70720036-1) - No abnormal findings / no excessive wear



BORESCOPE PICTURE 7

Combustion Chamber (70720182-2) - No abnormal findings / no excessive wear



BORESCOPE PICTURE 8

Turbine Nozzle Assy, First Stage (3844622-8) - L/E eroded (serviceable acc. AMM)



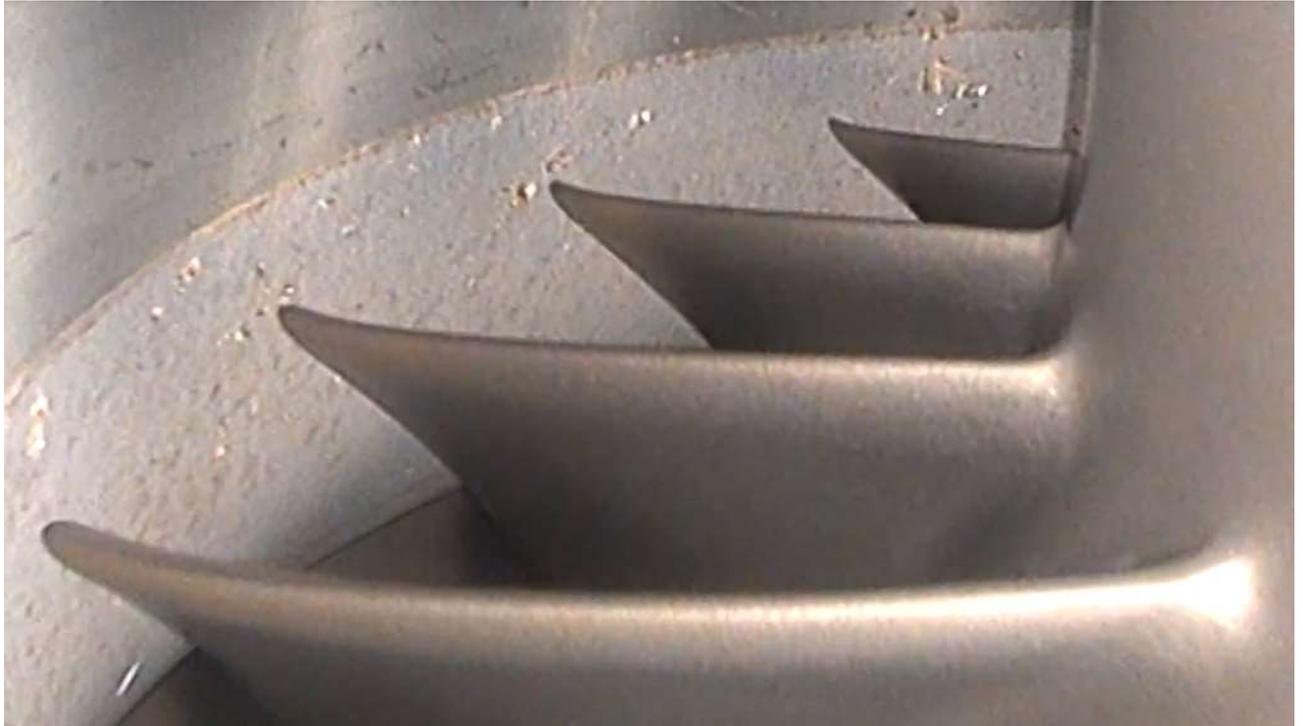
BORESCOPE PICTURE 9

Turbine Rotor Assy, Third Stage (3842160-6) - No abnormal findings / no excessive wear



BORESCOPE PICTURE 10

Diffuser, LC (70720132-2) - No abnormal findings / no excessive wear



BORESCOPE PICTURE 11

Impeller, EC, Second Stage (3822341-5) & Second Stage Compr. Housing (70720034-1) - Housing shroud contour found with impacts (serviceable acc. AMM)



BORESCOPE PICTURE 12

Turbine Rotor Assy, First Stage (3842152-1) - Blade L/E erosion (serviceable acc. to AMM)



INCOMING MISSING PARTS

EVENT N°

604189

Item	Nomenclature	Partnumber	QTY	Remarks
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No missing parts.



OUTGOING MISSING PARTS

EVENT N°

604189

Item	Nomenclature	Partnumber	QTY	Remarks
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No missing parts.