

1. Approving Civil Aviation Authority / Country: FAA / UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG		3. Form Tracking Number: 0000000000009808158 Page 1 of 1	
4. Organization Name and Address: Hamilton Sundstrand Worldwide Repair 1 Hamilton Road Dock W Windsor Locks CT 06096 SI3R842L		5. Work Order/Contract/Invoice Number: 45165463 R401260			
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
01	COMPRESSOR, CABIN AIR	7010101H09	1	2009120012	OVERHAULED
12. Remarks: Unit was OVERHAULED IAW CMM 21-51-97 Rev. 23 Dated 08/31/2022 and in accordance with S/B: 7010101-21-3 Revision: 0 Dated: 08/20/2019 CSN: UNK, TSN: UNK, CSO: 0, CSR: 0, TSO: 0.00, TSR: 0.00 Pertinent details of the workscope identified in the Status/Work block are on file under the work order identified in Block 5.					
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 [product/article] is considered ready for release to service under EASA Part 145 Approval No. EASA145.4983					
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 12.					
13b. Authorized Signature:		13c. Approval / Authorization No.:		14a. ☒ 14 CFR 43.9 Return to Service ☐ 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.	
13d. Name (Typed or Printed):		13e. Date (dd/mm/yyyy):		14b. Authorized Signature:  14c. Approval / Certificate No.: SI3R842L	
14d. Name (Typed or Printed):		14e. Date (dd/mm/yyyy):		14e. Date (dd/mm/yyyy): 21 NOV 2022	
14d. Name (Typed or Printed): DAVID BABEL					
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 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 中国 CHINA		2. 中国民用航空总局 CAAC ☐ 符合性Conformity ☒ 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. 00000000000009808159	
4. 单位 Organization Hamilton Sundstrand Worldwide Repair 1 Hamilton Road Windsor Locks CT 06096		5. 工作单/合同单/货单 Work Order/Contract/Invoice 45165463 / R401260					
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	COMPRESSOR, CABIN AIR	7010101H09	NOT KNOWN	1	2009120012	OVERHAULED	
13. 备注 Remarks Unit was OVERHAULED IAW CMM 21-51-97 Rev. 23 Dated 08/31/2022 and in accordance with S/B: 7010101-21-3 Revision: 0 Dated: 08/29/2019 CSN: UNK, TSN: UNK, CSO: 0, CSR: 0, TSO: 0.00, TSR: 0.00 Pertinent details of the workscope identified in the Status/Work block are on file under the work order identified in Block 5.							
14. 新产品 New Parts 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。 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.		15. 使用过的产品 Used Parts 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了工作, 该产品处于安全可用状态可以批准放行使用。 Certifies that the work specified above except as specified in block 13 was 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)					
16. 批准人签名 Signature 		18. 批准日期 Date 21/NOV/2022		19. 中国民航总局授权 Issued by or on behalf of the CAAC F00100007			
17. 批准人姓名 (打印的) Name(Printed) DAVID BABEL							

FINAL TEARDOWN REPORT

Hamilton Sundstrand
One Hamilton Road
BLDG 2, DOCK J
WINDSOR LOCKS CT 06096-1000
USA
Repair Station SI3R842L



UTC Aerospace Systems

Customer A J WALTER AVIATION	Cust PO R401260	Operator PO
Input Part 7010101H09	Input Serial 2009120012	Qty 1.000
Output Part 7010101H09	Output Serial 2009120012	Workscope OVERHAUL
Cust Part NONE	Cust Serial 2009120012	Status/Work OVERHAULED
Description COMPRESSOR, CABIN AIR	Removal Code FUNF	Failure Date
Aircraft B787	Engine Type ACS PCK Packs	
Incoming NSN N/A	Outgoing NSN N/A	Tail No VP-BBS
Date Rec'd 10/17/2022	Quote Date 11/04/2022	Accept Date 11/11/2022
Ship Date	DOM	Last Order Date 11/06/2017
Sales Order 120203356	Work Order 45165463	Notification 304898238
Engine Serial Number : UNK		
Technical Documents : Service Bulletin Recurring 7010101-21-3 Revision: 00 Rev. Date: 08/20/2019		
Conditions service wear		
Customer Reason for Return REASON FOR REMOVAL OR FAILURE DETAILS: EICAS STATUS MESG "CABIN AIR CPRSF PLEASE OH CUSTOMER DOCUMENTS: n/a		
Certification Type 8130-3 dual/CAAC		
Configuration IN L8		
Configuration OUT L11		
Customer Reference Cust. PN Out: N/A		
Preliminary Inspection		

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UTC Aerospace Systems

Work Order 45165463	Description COMPRESSOR, CABIN AIR	Date Rec'd 10/17/2022
Input Part 7010101H09	Input Serial 2009120012	
Cust Part NONE	Cust Serial 2009120012	
SEIZED		
CMM Reference CMM 21-51-97 REV 23 DATED 08/31/2022		
Incoming Functional Test Performed?(Y/N) N		
Incoming Functional Test Failed? (Y/N) N		
Removal Scheduled? (S/U/O) U		
Removal Induced Flag? (Y/N) N		
Removal Reason Confirmed? (Y/N) Y		
Work Performed OVERHAUL S/B: 7010101-21-3 Revision: 0 Dated: 08/20/2019 CSN: UNK, TSN: UNK, CSO: 0, CSR: 0, TSO: 0.00, TSR: 0.00		
Customer Reference N/A		
Engine Serial Number UNK		
Primary Findings ROTATING COMPONENTS FORWARD JOURNAL BEARING ASSEMBLY- BEARING ASSEMBLY SEIZED		
Other/Secondary Findings UNIT HOUSINGS COMPRESSOR OUTLET HOUSING- LAND SEAL DAMAGED - DEFORMED Center Section erosion.		
Other/Secondary Findings UNIT HOUSINGS MOTOR HOUSING- LAND SEAL DAMAGED - WORN		

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UTC Aerospace Systems

Work Order	45165463	Description	COMPRESSOR, CABIN AIR	Date Rec'd	10/17/2022
Input Part	7010101H09	Input Serial	2009120012		
Cust Part	NONE	Cust Serial	2009120012		

Other/Secondary Findings

VARIABLE DIFFUSER ASSEMBLY DIFFUSER VANE- VANE LOCATING SLOT/HOLE WORN
CR-0010578

Resultant Findings

UNIT HOUSINGS COMPRESSOR OUTLET HOUSING- BEARING HOUSING BORE DEFORMED
Bearing Bore damage.

Resultant Findings

VARIABLE DIFFUSER ASSEMBLY DIFFUSER SHROUD- INTERIOR SURFACE CONTOUR
RADIAL RUB Compressor Rotor contact.

Resultant Findings

ROTATING COMPONENTS COMPRESSOR ROTOR- BLADE CONTOUR ERODED Diffuser
Shroud contact.

Resultant Findings

MOTOR ASSEMBLY INSEPARABLE STATOR ASSEMBLY- WIRING SHORTED WINDINGS
Failed Testing.

Resultant Findings

MOTOR ASSEMBLY INSEPARABLE ROTOR ASSEMBLY- ROTOR MAGNETS CRACKED
Laminate Stack contact.

Resultant Findings

ROTATING COMPONENTS THRUST BEARING - CCW- BEARING HEAT DAMAGE Air Foils
damaged/Laminate damage.

Resultant Findings

ROTATING COMPONENTS THRUST BEARING - CW- BEARING HEAT DAMAGE Air Foils
damaged/Laminate damage.

Resultant Findings

ROTATING COMPONENTS AFT JOURNAL BEARING- BEARING ASSEMBLY SEIZED

Resultant Findings

ROTATING COMPONENTS AIR BEARING SHAFT- OUTSIDE DIAMETER PLATING
OVERHEATED Seized.

Components :

Order	Material	Description	Req Qty	Issued	Reason Code	Stor Loc
45165463	7000332-3	JOURNAL BEARING, ASSY	2	2	SEIZED/MOD	NEW1

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Input Part	7010101H09	Input Serial	2009120012				
Cust Part	NONE	Cust Serial	2009120012				
45165463	A525	787 CAC O/H KIT	1	1	100% REPLACEMENT	NEW1	
45165463	7000335-3	BEARING, THRUST	1	1	OVERHEATED	NEW1	
45165463	7000336-3	BEARING, THRUST	1	1	OVERHEATED	NEW1	
45165463	7000828-2	ROTOR, COMPRESSOR	1	1	ERODED	NEW1	
45165463	7000833-2	SHAFT, AIR BEARING	1	1	OVERHEATED/S EIZED	NEW1	
45165463	7001689A	ROTOR ASSEMBLY, INSEPARABLE	1	1	OD CHIPPING/CRACK	NEW1	
45165463	7213714	STATOR ASSEMBLY, INSEPARABLE	1	1	SB 7010101-21-3	NEW1	
45165463	5914822-7	TERMINAL, DOUBLE STUD	3	3	SB 7010101-21-3	NEW1	
45165463	5914822-6	TERMINAL, DOUBLE STUD	3	3	SB 7010101-21-3	NEW1	
45165463	M23053/8-008-C	SLEEVING, INSULAT, HEAT SHRINK	1	1	SB 7010101-21-3	NEW1	
45165463	7101565-6	HOUSING, MOTOR	1	1	LAND SEAL WEAR	ROT1	
45165463	7002784-1	HOUSING, OUTLET	1	1	CTR SECTION/BRG BORE DMG	ROT2	
45178623	7003834-2	RACK, DIFFUSER	1	1	WEAR	NEW1	
45178623	NAS1802-3-19	BOLT, HEX	2	2	WEAR	NEW1	
45178623	NAS620C10L	WASH, FLAT, .195ID, .354OD, .032THK, SST/PSV	2	2	100% REPLACEMENT	NEW1	
45178623	MS171656	PIN, .250 NOM, 1.250 LG	2	2	100% REPLACEMENT	NEW1	
45178623	7006762-3	VANE, DIFFUSER	19	19	CR-0010578	NEW1	
45178623	A564	787 CAC Diffuser KIT	1	1	100% REPLACEMENT	NEW1	
45178623	7003548-6	SHROUD, DIFFUSER	1	1	EROSION	NEW1	
45178623	7003836-1	HOUSING, PINION SHAFT	1	1	WEAR	NEW1	
45178623	7003831-1	RING, BOLT	1	1	WEAR	NEW1	
45178623	7001838-4	RING, DRIVE	1	1	WEAR	ROT1	

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