1. Approving Competent Authority/Country	2.	3. Form Tracking Number
Luftfahrt-Bundesamt[LBA],Germany	**AUTHORISED RELEASE CERTIFICATE** **EASA FORM 1**	20190006381410Y02 335569968

4. Organisation Name and Address:	5. Work Order/Contract/Invoice
Honeywell Aerospace GmbH Frankfurter Strasse 41 - 65 65479 Raunheim Germany	PO-ME-19-12 335569290 Page 1 of 1

6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	ENGINE OUTLINE, GAS TURBINE	3800708-1	1	R-2157	REPAIRED

12. Remarks

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:
EM 49-27-29 Rev 12, AUG/14/2018

ORI AUTHORIZATION PER EASA ED DECISION 2007/001/C.
LIFE TRACKED PARTS AND LRUS: SEE ATTACHED APU SERVICE RECORD.
SERVICE BULLETIN STATUS: SEE ATTACHED LISTINGS.
NO EASA OR FAA ADS EFFECTIVE.
SPECIAL INSPECTION REQUIREMENTS PERFORMED.
REFER TO THE ATTACHED FORM QS1339/2006 FOR DETAILS.

UNIT PRESERVED IAW. SB 49-8028 REV.1 FOR 24 MONTHS STORAGE.
TEXT CONTINUED ON RIGHT SIDE

CONTINUED:
TSN: 38481,05/CSN: 38056 IS AT POINT OF INSTALLATION FOR COMPUTATION OF LLP CYCLES. DMM HOURS/CYCLES ON RELEASE IS 38482,47/38060 (1,42 HOURS AND 4 CYCLES USED ON APU FINAL TESTING).

TSN 38481,05 TSR 0,00
CSN 38056 CSR 0

SERIES 2

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 RETURN TO SERVICE UNDER CERTIFICATE NO.QJ1Y428K
THE WORK IDENTIFIED IN BLOCK 11 AND DESCRIBED HEREIN HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH TCCA CAR 571 AND IN RESPECT TO THAT WORK,THE ITEMS ARE APPROVED FOR RETURN TO SERVICE UNDER TCCA CERTIFICATE NO. 898-02.

13a. Certifies that the items identified above were manufactured in conformity to:	14a ☑ Part-145.A.50 Release to Service ☑ Other regulation specified in block 12
☐ approved design data and are in condition for safe operation ☐ non-approved design data 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	14c. Certificate/Approval Ref. No
			DE.145.0022
13d. Name	**13e. Date (dd mmm yyyy)**	**14d. Name**	**14e. Date (dd mmm yyyy)**
		Dirk Witczak	25 APR 2019

USER/INSTALLER RESPONSIBILITIES
This certificate does not automatically constitute authority to install the item(s).

Where the user/installer performs work in accordance with regulation 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.

Honeywell Aerospace GmbH
FrankfurterStr. 41 – 65
65479 Raunheim - Germany

APU SERVICE RECORD

DATE	ACCUMULATIVE TOTALS				P/N : 3800708-1	S/N : R-2157
	HOURS		CYCLES			
	TSN /	TSO	CSN /	CSO	TSR /	CSR
23042019	38481,05 /	N/A	38056 /	N/A	0 /	0

DESCRIPTION OF WORK PERFORMED

TYPE MAINTENANCE : Repaired and Modified
EM 49-27-29 REV.12; 131-9(A); SERIES: 2; P/O: PO-ME-19-12;
SPECIAL INSPECTION REQUIREMENTS PERFORMED, REFER TO THE ATTACHED FORM QS1339/2006 FOR DETAILS.

THE AIRCRAFT COMPONENT IDENTIFIED ABOVE WAS INSPECTED IN ACCORDANCE WITH CURRENT CIVIL AVIATION ADMINISTRATION REGULATIONS (SEE ATTACHED CERTIFICATE) AND IS APPROVED FOR RETURN TO SERVICE. PERTINENT DETAILS OF WORK PERFORMED ARE ON FILE AT THIS AGENCY UNDER REPAIR ORDER : 335569290

TRACEABLE LIFE LIMITED / LIFE CONTROLLED PARTS

ITEM	ROTOR	ASSY	S/N	HRS	CYC	LEFT	LIMIT	ST
LC.ROTOR	3822400-5	N/A	13-162053-53644	12837,92	13777	O/C	N/A	3
EC.ROTOR	3822391-6	N/A	13-162053-53496	12547,95	13272	16728	30000	3E
T.SHAFT	3822504-3	N/A	19P06424	0	0	30000	30000	5E
1T.WHEEL	3840310-4	N/A	18-156101-06496	0	0	30000	30000	5E
1T.WHEEL	3840165-4	N/A	18-156101-10667	0	0	30000	30000	5E

ST (STATUS) and LIMIT (ROTOR LIFE LIMIT)
0=NOT EXPOSED 2=REPAIR 3=OVERHAUL 4=VISUAL INSPECT 5=NEW E=EXCHANGE
Life Limit (Cycles) are not to be exceeded, when "N/A" Life Limits do not apply

NAMEPLATE DATA CONTROLLED

ITEM	P/N	S/N	ST	ITEM	P/N	S/N	ST
FCU	441921-5	CUC18447	2E	FAN ASSY	3616140-11	R-2158CC	2
STARTER	2704506-4	1925	2	GEARBOX	3805057-1	NONE	2
LUBE MOD	4131020-4	2175	2	DEOILSOL	4141028-3	MFR95273-0690	3E
HARNESS	3888438-1	NONE	3E	LCV	3291432-1	2287	2
SCV	3291238-2	3384	2	DMM	3876287-1	GE1098	2
T.P.SENS	3876226-1	6378-9A-60	4	IGN.UNIT	3888058-7	120558	4
IGV.ACT	3886188-3	5791	3E	OIL COOL	160494-1	1735	2
OIL HEAT	3876145-1	NONE	4				

ST (STATUS)
0=TEST ON APU 1=FINAL/BENCHTEST 2=REPAIR 3=OVERHAUL 4=VISUAL INSPECT 5=NEW E=EXCHANGE

EASA APPROVED MAINT. ORG. NO.: DE.145.0022
FAA APPROVED REPAIR STATION NO.: QJ1Y428K
TCCA ACCEPTANCE APPROVAL NO.: 898-02
BCAA APPROVED MAINT. ORG. NO.: ALD/AIR/8/5.65
PACA APPROVED MAINT. ORG. NO.: AWR/263/GMBH-071/92
GACA APPROVED REPAIR STATION NO.: AMO-152F
GCAA APPROVED MAINT. ORG. NO.: UAE.145.1050
KCASR APPROVED MAINT. ORG. NO.: DGCA/ AM0/069
QCAA APPROVED MAINT. ORG. NO.: QCAA/FAMO/126
JCARC APPROVED MAINT. ORG. NO.: CARC.F.AMO.60
IDGCA APPROVED MAINT. ORG. NO.: 5-2435/2015-AI(2)

G. Ritz — STAMP — 23.04.2019 DATE

RUN DATE: 23.04.2019
RUN BY: G. Ritz

HONEYWELL AEROSPACE GMBH RAUNHEIM
SERVICE BULLETIN STATUS
ENGINE MODEL: 131-9(A) ENGINE SN: R-2157

CUSTOMER: 14434

SERVICE BULLETIN	REV.	DESCRIPTION	WHEN ACCOMP
GTE1177		REPLACE FAN #3616140-6 WITH #-7	PCW
GTE1190		REPLACE IGNITION UNIT #3888058-5 WITH #-7	PCW
GTE1192		REPLACE 2nd STAGE STATOR #3844762-2 WITH #3844864-1	PCW
GTE1206		REPLACE NAMEPLATES #S11007B1/S20003-3/S20021-1 WITH #S21021-1/S21003-3/S21021-1	PCW
GTE1231		REPLACE COMBUSTION CHAMBER #3830461-5 WITH #-6	PCW
GTE1280		REPLACE 2nd STAGE STATIONARY AIR SEAL #3844582-1 WITH #-2	PCW
SPB D201703000072	1	REPLACE BUTTERFLY SHAFT #3180688-1 WITH #63001140-1 ON SCV #3291238-2.	23.04.2019
441921-49-0004		REWORK FCU #441921-4 TO #-5	PCW
441921-49-0006	OR	REWORK FCU #441921-5 ISSUE 8 TO ISSUE 9	23.04.2019
441921-49-0010		INSPECTION OF THIN WALL CASTINGS ON FCU #441921-5 PL ISS 9	N/A
ASH-001	2	REPLACE ID-STRAPS ON HARNESS #3888438-1	26.09.2013
B55968-49-01		REWORK IGV ACTUATOR #3886188-1/-2	PCW
B55968-49-02	OR	REWORK IGV-ACTUATOR #3886188-2 TO #-3	26.09.2013
CH92036-49-001	OR	REWORK IGNITION UNIT #3888058-7	N/A
CUC1-49-0001		ONE-TIME INSPECTION FOR MISSING SPRING IN RELIEF VALVE	PCW
CUC1-49-0002		REWORK FCU #441921-4	PCW
49-2368		REWORK STARTER #2704506-1 S1 TO CHNO1 OR #2704506-2 S1 TO S2	PCW
49-2375		REWORK STARTER #2704506-1 S1 CHNO1 TO CHNO3, #2704506-2 S1/S2 TO CHNO 1, AND #2704506-2 S2 TO S3	PCW
49-2378		REWORK OIL COOLER #160494-1 S1 TO S2	PCW
49-2395	2	REWORK STARTER #2704506-2 S3 TO #-4	23.04.2019
49-7032 3291238		INSPECTION OF SCV #3291238-2 FOR CHROME PLATING ON BUTTERFLY SHAFT #3180688-1	N/A
49-7039		REPLACE THE ACTUATOR HOUSING, BUTTERFLY SHAFT AND SETSCREW	PCW
49-7469		REPLACE STUD #682-557-2416 WITH #-2418	PCW
49-7562	1	REPLACE TURBINE SEAL GASKET #3844707-1 WITH #-2	26.09.2013
49-7600		REWORK/REPLACE TURBINE STATOR SUPPORT #3844797-15/-16 TO/WITH #-19/-20	PCW
49-7606	OR	REWORK/REPLACE POWER SECTION #3801300-1 TO/WITH #-2 AND PLUMBING & ELECTRIC #3617170-1 TO/WITH #-2	26.09.2013
49-7668	OR	INCORPORATE COMBUSTOR CASE DRAIN PLUG LOCK WIRE FEATURE	26.09.2013
49-7687		REPLACE FCU #441921-4 WITH #-5	PCW
49-7712	1	REWORK/REPLACE SURGE DUCT #3884974-1 WITH #3885084-1	23.04.2019
49-7718		REPLACE ENGINE COMPRESSOR SHROUD #3827322-3 WITH #3827504-3	PCW
49-7739		REPLACE FLOW DIVIDER #3883830-1 WITH #3879005-1 AND FITTING #MS24392J4 WITH #3879006-1	23.04.2019

N/A = NOT APPLICABLE
OR = ORIGINAL ISSUE
PCW = PREVIOUSLY COMPLIED WITH
AD = AIRWORTHINESS DIRECTIVE
LTA = LUFTFAHRT TÜCHTIGKEITSANWEISUNG
CN = CONSIGNE DE NAVIGABILITÉ

EASA APPROVED MAINT. ORG. NO.: DE.145.0022
FAA APPROVED REPAIR STATION NO.: QJ1Y428K
TCCA ACCEPTANCE APPROVAL NO.: 898-02
BCAA APPROVED MAINT. ORG. NO.: ALD/AIR/8/5.65
PACA APPROVED MAINT. ORG. NO.: AWR/263/GMBH-071/92
GACA APPROVED REPAIR STATION NO.: AMO-152F
GCAA APPROVED MAINT. ORG. NO.: UAE.145.1050
KCASR APPROVED MAINT. ORG. NO.: DGCA/ AMO/069
QCAA APPROVED MAINT. ORG. NO.: QCAA/FAMO/126
JCARC APPROVED MAINT. ORG. NO.: CARC.F.AMO.60
IDGCA APPROVED MAINT. ORG. NO.: 5-2435/2015-AI(2)

RUN DATE: 23.04.2019
RUN BY: G. Ritz

HONEYWELL AEROSPACE GMBH RAUNHEIM
SERVICE BULLETIN STATUS
ENGINE MODEL: 131-9(A) ENGINE SN: R-2157

CUSTOMER: 14434

SERVICE BULLETIN	REV.	DESCRIPTION	WHEN ACCOMP
49-7741	1	REPLACE FCU CLAMP #234-591-3030 WITH #234-511-9059	26.09.2013
49-7744		REWORK/REPLACE 1. STAGE TURBINE NOZZLE #3844797-15-19 OR #-16/-20 WITH/TO #-21 OR #-22	PCW
49-7777		REWORK/REPLACE 1st STAGE TURBINE WHEEL #3840160-5 TO/WITH #3840303-1	PCW
49-7778		REWORK/REPLACE 1ST STAGE STATOR SUPPORT #3844797-15/-16/-19/-20/-21/-22 TO/WITH #-17/-18	PCW
49-7845	OR	REPLACE REAR BEARING SEAL #3844561-1 WITH #-3	26.09.2013
49-7846		REWORK 1ST STAGE TURBINE WHEEL #3840303-1 TO #3840160-7	REF 49-7856
49-7856		REPLACE 1ST STAGE TURBINE WHEEL #3840303-1 OR REPLACE/REWORK #3840160-5 WITH/TO #3840160-8	REF 49-8063
49-7944	OR	REPLACE SCAVENGE TUBE #3881826-1 WITH #-2, AND INCORPORATE GASKET #AS4824N06	26.09.2013
49-7947		REPLACE LOAD COMPRESSOR SEAL #3827350-3 WITH #3827608-3 AND ROTOR #3822418-1 WITH #3822635-2	PCW
49-7989	OR	REPLACE TURBINE SEAL GASKET #3844705-1 WLTH #-2	26.09.2013
49-8006	OR	REPLACE FAN #3616140-7 WITH #-10	26.09.2013
49-8015	OR	REPLACE DUPLEX BRG #3822478-1 WITH #3822666-2, COMP BRG HSG #3827265-4 WITH #3827265-8, COMP BRG RETAINER #3827385-1 WITH #3827385-2, AND SPRING WASHER #3827075-1 WITH #791-548-9301.	26.09.2013
49-8018	OR	REWORK FAN #3616140-7 TO #-10	26.09.2013
49-8026	OR	REPLACE THE INLET GUIDE VANE ACTUATOR #3886188-2 WITH #-3	26.09.2013
49-8030	OR	INSPECT AND REPLACE THE FUEL SUPPLY TUBE ASSEMBLY #3883954-2 IF LEAK FOUND.	N/A
49-8050	OR	REPLACE STARTER #2704506-3 WITH #-2	N/A
49-8053	OR	REPLACEMENT OF SECOND STAGE TURBINE ROTOR #3840165-4	N/A
49-8055	1	REPLACE FUEL SUPPLY TUBE #3883954-2	N/A
49-8063	OR	REPLACE 1 STG WHEEL #3840160-5, #-7, #-8 OR #3840303-1 WITH #3840310-3 AND STATIONARY SEAL #3844738-5 WITH #3844738-6.	26.09.2013
49-8078	OR	REPLACEMENT OF DISCREPANT DMM #3876287-1	N/A
49-8089	1	INSPECT SECOND STAGE TURBINE ROTOR #3840165-4 FOR LINEAR INDICATIONS	N/A
49-8097	OR	REPLACEMENT OF TURBINE ROLLER BEARING #3840242-1, WITH THE INCORRECT ROLLING ELEMENT MATERIAL	26.09.2013
49-8103	1	REWORK AND/OR REPLACE PLUMBING AND ELECTRICAL #3617170-4 TO/WITH #-5	23.04.2019
49-8205		REPLACE/REWORK OIL COOLER RETURN TUBE #3881763-1 WITH/TO #-2, AND OIL COOLER SUPPLY TUBE #3881764-1 WITH/TO #-2. ADD NEW RETAINER #70722243-1 AND 70722244-1.	23.04.2019
49-8217		REPLACE STATIONARY AIR SEAL #3844738-6 WITH #-7	23.04.2019
49-8225		REPLACE 1STG TURBINE WHEEL #3840310-3 WITH #-4.	23.04.2019
49-8246	1	REWORK FAN #3616140-7 OR #-10 TO #-11	23.04.2019
49-8266		REPLACE DISCREPANT FCU #441921-5	N/A
SIL D201210000033	OR	INFORM OPERATORS OF SET BEARINGS (TURBINE ROLLER BEARING) #3840242-1 WITH THE INCORRECT ROLLING ELEMENT MATERIAL	N/A

SIGNATURE / STAMP

N/A = NOT APPLICABLE
OR = ORIGINAL ISSUE
PCW = PREVIOUSLY COMPLIED WITH
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LTA = LUFTFAHRT TÜCHTIGKEITSANWEISUNG
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EASA APPROVED MAINT. ORG. NO.: DE.145.0022
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GACA APPROVED REPAIR STATION NO.: AMO-152F
GCAA APPROVED MAINT. ORG. NO.: UAE.145.1050
KCASR APPROVED MAINT. ORG. NO.: DGCA/ AMO/069
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JCARC APPROVED MAINT. ORG. NO.: CARC.F.AMO.60
IDGCA APPROVED MAINT. ORG. NO.: 5-2435/2015-AI(2)

Honeywell Aerospace GmbH
Frankfurter Str. 41 - 65
D-65479 Raunheim

The followings ORI and ARB have been incorporated:

PN: 3800708-1 SN: R-2157

RO: 335569290 Date: 23.04.2019

Partnumber	Partname	ORI Number
2704506-4	STARTER MOTOR	R00592 REV.D
3291238-2	SURGE CONTROL VALVE	W01836
3616146-5	COOLING FAN GEARSHAFT	P36158
3810889-5	UPPER INLET DUCT	P35562 REV.G
3810900-3	COOLING FAN EXIT DUCT	P35562 REV.G
3810919-002	LOWER INLET DUCT	P35562 REV.G
3822391-6	E/C ROTOR	P31599 REV.B
3827152-3	L/C CASE	P31241 REV.D
3827429-1	DIFFUSER HOUSING ASSY	P36052 REV.B
3830461-6	COMBUSTION CHAMBER	P31921 REV.D, P34357 REV.A
3844766-4	COMBUSTOR CASE	P35027
3863426-3	HOUSING ASSY	P35192 REV.A
3885084-1	SURGE DUCT	P31383 REV.A
3888438-1	WIRING HARNESS	P34359 REV.B, P34914 REV.D, P35218 REV.F, P35320 REV.A, P35598 REV.C
4131020-4	LUBE MODULE	P36006 REV.C, P31866 REV.C, P35548 REV.B

Partnumber	Partname	ARB Number

Signature / Stamp

Honeywell Aerospace GmbH
Approval Certificate
Nr.: DE.145.0022

Honeywell Aerospace GmbH
Frankfurter Str. 41 - 65
D-65479 Raunheim

GTCP 36-300, 131-9 A, A320 Series Special Inspection Requirements

Part Number	Serial Number
3800708-1	R-2157

Repair Order	Date
335569290	23.4.2019

Section / Component	Nature of Check	Inspection performed
Starter Motor PN 2704506-1/-2/-3/-4	Starter Brushes checked for wear, ok!	
Starter Motor PN 2704506-1/-2/-3/-4	Starter Clutch Checked for proper Engagement and Disengagement, ok!	
Starter Motor PN 2000866-2/-4	Starter Brushes checked for wear, ok!	N/A
Starter Motor PN 2000866-2/-4	Starter Clutch Checked for proper Engagement and Disengagement, ok!	N/A
APU Air Inlet Area,	APU Air Intake Area Cleaned, ok!	

AUXILIARY POWER UNIT

APU LOG BOOK

AlliedSignal

AlliedSignal Aerospace GmbH
Frankfurter Straße 41-65
65479 Raunheim, Germany

DATE	ACCUMULATED APU HOURS	ACCUMULATED APU STARTS	REMARKS, INSPECTIONS, REPAIRS, AND ADJUSTMENTS	SIGNATURE
07/03/18	38481	38056	APU IS REMOVED FROM AIC VP-BHD MSN 2618	

APU Service Record

Honeywell Aerospace GmbH Frankfurter Straße 41-65 65479 Raunheim, Germany	Engine Type: 131-9(A)	Honeywell

R/O:	335569290	P/O:	PO-ME-19-12	Date:	23.04.2019
P/N:	3800708-1	S/N:	R-2157	Series:	2
TSN:	38481,05	TSO:	N/A	TSR:	0
CSN:	38056	CSO:	N/A	CSR:	0

Engine has been:			
X	Inspected	---	HSI
X	Repaired		
---	Overhauled		
X	Modified		
X	Tested	---	Hourmeter Reading

Certificate/Approval Ref. No.:

EASA approval No.: DE.145.0022
FAA approval No.: QJ1Y428K
TCCA approval No.: 698-02
BCAA approval No.: ALD/AIR/8/5.65
PACA approval No.: AWR/263/GMBH-071/92
GACA approval No.: AMO-152F
GCAA approval No.: UAE.145.1050
KCASR approval No.: DGCA/AMO/069
QCAA approval No.: QCAA/FAMO/126
JCARC approval No.: CARC.F.AMO.60
IDGCA approval No.: 5-2435/2015-AI(2)

Notes NO EASA AND/OR FAA AD'S APPLICABLE.
SPECIAL INSPECTION REQUIREMENTS PERFORMED, REFER TO THE ATTACHED FORM QS1339/2006 FOR DETAILS.

Note: APU on release after testcell runs.
The TSN / CSN is as follows:

TSN: 3848247 Hours

CSN: 38060 Cycles

Signature / Stamp

Form QS 1080/2000 AZ: 13; 17.09.2018

ULTIMATE LIFE PART CARD

Part Name Driven Comp Impeller Part Number 3822400-5

Serial Number 13-162053-53644 Part of Assy Part Number NA

DATE		APU SERIAL NUMBER	AIRCRAFT SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		REMARKS
INSTALLED	REMOVED			CYCLE	HOURS	CYCLE	HOURS	
27. SEP. 2013		R-2157		0	0	0	0	315576373 (8.)

QS 1160 / 2001

ULTIMATE LIFE PART REPAIR RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE
23. APR. 2019	O/H IN ACCORDANCE TSN: 12837,92 CSN: 13777	Honeywell Aerospace GmbH
	WITH THE CURRENT MANUAL NDT CHECK PERFORMED	Approval Certificate Nr.: DE.145.0022 (8.)

LIFE LIMITED PART CARD

Part Name EC.ROTOR Part Number 3822391-6

Serial Number 13-162053-53496 Part of Assy Part Number N/A

DATE		APU SERIAL NUMBER	AIRCRAFT SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		REMARKS
INSTALLED	REMOVED			CYCLE	HOURS	CYCLE	HOURS	
25.07.2013	---	R-2486		0	0	0	0	315038797 G 53
	04.07.18	R-2486		13272	12547,95	13272	12547,95	332643185 G 66
23. APR. 2019		R-2157		Ø	Ø	13272	12547,95	33556921[illegible] G 8

Form QS 1412/2008 ÄZ: 00; 23.07.2008

ID: 42334

LIFE LIMITED PART REPAIR RECORD

DATE	MAINTENANCE PERFORMED	AUTHORIZED SIGNATURE
07/31 2018	TSN: 12547.95 CSN: 13272, overhauled Per IRM 49-26-85 Rev 31, Dim restore contour and crevices, balanced, FPI, Shot Peen Per ORI P31599 Rev B. R/O # 07590-332488165.	Honeywell ZNSR050M [signature]

LIFE LIMITED PART CARD

Part Name T.SHAFT Part Number 3822504-3

Serial Number 19P06424 Part of Assy Part Number N/A

DATE		APU SERIAL NUMBER	AIRCRAFT SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		REMARKS
INSTALLED	REMOVED			CYCLE	HOURS	CYCLE	HOURS	
23.04.2019	---	R-2157		0	0	0	0	335569290

Form QS 1412/2008 ÄZ: 00; 23.07.2008

ID: 62431

LIFE LIMITED PART CARD

Part Name 1T.ROTOR Part Number 3840310-4

Serial Number 18-156101-06496 Part of Assy Part Number N/A

DATE		APU SERIAL NUMBER	AIRCRAFT SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		REMARKS
INSTALLED	REMOVED			CYCLE	HOURS	CYCLE	HOURS	
23.04.2019	---	R-2157		0	0	0	0	335569290 B

Form QS 1412/2008 ÄZ: 00; 23.07.2008

ID: 62432

LIFE LIMITED PART CARD

Part Name 2T.WHEEL Part Number 3840165-4

Serial Number 18-156101-10667 Part of Assy Part Number N/A

DATE		APU SERIAL NUMBER	AIRCRAFT SERIAL NUMBER	TIME ON PART THIS INSTALLATION		TOTAL TIME ON PART		REMARKS
INSTALLED	REMOVED			CYCLE	HOURS	CYCLE	HOURS	
23.04.2019	---	R-2157		0	0	0	0	335569290 B

Form QS 1412/2008 ÄZ: 00; 23.07.2008

ID: 62433

1. Approving Civil Aviation Authority/Country: **FAA/United States**	2. **AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	3. Form Tracking Number: 20180005109186Y15 332988165
4. Organization Name and Address: Honeywell International Inc 1944 E Sky Harbor Circle PHOENIX AZ 85034	Repair Station ZN3R030M	5. Work Order/Contract/Invoice Number: 8513089 332916424 Page 1 of 1

6.Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	COMPRESSOR ROTOR, CENTRIFUGAL E/C	3822391-6	1	13-162053-53496	OVERHAULED

12. Remarks:

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:
IRM 49-26-85 Rev 31, AUG/02/2017
ORI P31599 Rev B, MAY/03/2007

SEE ATTACHED CAFÉ FOR A SUMMARY OF THE MAINTENANCE/WORK ACCOMPLISHED

	HH.DD	(HH:MM)
TSN	12547.95	(12547:57)
CSN	13272	

SEE ATTACHED DOCUMENTS AS APPLICABLE FOR WORK PERFORMED

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 NO. EASA 145.4136

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.		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.	
13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.: **ZN3R030M**
13d. Name (Typed or Printed):	13e. Date(dd/mmm/yyyy):	14d. Name (Typed or Printed): **Albert J Lucas**	14e. Date(dd/mmm/yyyy): **31/JUL/2018**

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 Block1, 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 Block1. 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. Approving Civil Aviation Authority/Country:

FAA/United States

2.

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
20190006265885Y14
9002872165-900001

4. Organization Name and Address: Honeywell International Inc.
111 S. 34th Street
Phoenix, Arizona 85034

Production Approval
PT1222NM

Honeywell International Inc.
Units 2-4, Chevron, Eaton Road
Hemel Hempstead, HP2 7UB
UNITED KINGDOM

5. Work Order/Contract/Invoice Number:
4706186559-000010
Page 1 of 1

6.Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	SHAFT, TURB	3822504-3	4	19P06182 See Continuation	NEW

12. Remarks:

AIRWORTHINESS APPROVAL.
THIS SHAFT, TURB IS A SUBCOMPONENT OF A TSO AUTHORIZATION.
Block 10 Serial Number(s): (Continued):
19P06305, 19P06433, 19P06424.

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.

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.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
	ODA-602216-NM		
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date(dd/mmm/yyyy):**
Anthony Marzec	**01/APR/2019**		

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 Block1, 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 Block1. 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. Approving Civil Aviation Authority/Country: **FAA/United States**	2. **AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	3. Form Tracking Number: 20190006322069Y14 9002913145-80001

4. Organization Name and Address:			5. Work Order/Contract/Invoice Number:
Honeywell International Inc. 111 S. 34th Street Phoenix, Arizona 85034	Production Approval PT1222NM	Honeywell International Inc. Units 2-4, Chevron, Eaton Road Hemel Hempstead, HP2 7UB UNITED KINGDOM	4706197143-000010 Page 1 of 1

6.Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	ROTOR ASSY, TURBINE - FIRST STAGE AXIAL	3840310-4	7	18-156101-00103 See Continuation	NEW

12. Remarks:

AIRWORTHINESS APPROVAL.

THIS ROTOR ASSY, TURBINE - FIRST STAGE AXIAL IS A SUBCOMPONENT OF A TSO AUTHORIZATION.

Block 10 Serial Number(s): (Continued):

18-156101-06496, 18-156101-07445, 18-156101-05734, 18-156101-04422, 18-156101-01291, 17-156101-11563.

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.

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.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
	ODA-602216-NM		
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date(dd/mmm/yyyy):**
Anthony Marzec	12/APR/2019		

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 Block1, 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 Block1. 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. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG**	20190006284356Y14 9002884893-900004

4. Organization Name and Address:	Production Approval		5. Work Order/Contract/Invoice Number:
Honeywell International Inc. 111 S. 34th Street Phoenix, Arizona 85034	PT1222NM	Honeywell International Inc. Units 2-4, Chevron, Eaton Road Hemel Hempstead, HP2 7UB UNITED KINGDOM	4706194330-000010 Page 1 of 1

6.Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status / Work:
001	TURBINE ROTOR ASSEMBLY SECOND STAGE	3840165-4	1	18-156101-10667	NEW

12. Remarks:

AIRWORTHINESS APPROVAL.

THIS TURBINE ROTOR ASSEMBLY SECOND STAGE IS A SUBCOMPONENT OF A TSO AUTHORIZATION.

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.

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.

13b. Authorized Signature:	13c. Approval/Authorization No.:	14b. Authorized Signature:	14c. Approval/Certificate No.:
S. Foulger	ODA-602216-NM		
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date(dd/mmm/yyyy):**
Stephen Foulger	04/APR/2019		

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 Block1, 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 Block1. 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. Approving Competent Authority/Country	2. AUTHORISED RELEASE CERTIFICATE EASA FORM 1	3. Form Tracking Number
Luftfahrt-Bundesamt[LBA],Germany		20190006042544Y02 334652997

4. Organisation Name and Address:	5. Work Order/Contract/Invoice
Honeywell Aerospace GmbH Frankfurter Strasse 41 - 65 65479 Raunheim Germany	N/A 334342685 Page 1 of 1

6. Item	7. Description	8. Part No	9. Qty	10. Serial No.	11. Status/Work
001	APU Fuel Control	441921-5	1	CUC18447	REPAIRED

12. Remarks

THE SERVICE SPECIFIED HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH:
CMM 49-30-99 Rev 7, JUL/01/2016

TSN: 12133,00 CSN: 16116
TSR / CSR: 0
TEST UNIT PER TESTING PRIOR TO PLACING UNIT IN SERVICE, IF TIME IN STORAGE EXEEDS 5 YEARS.
MODS: PL ISS 9

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 RETURN TO SERVICE UNDER CERTIFICATE NO.QJ1Y428K
THE WORK IDENTIFIED IN BLOCK 11 AND DESCRIBED HEREIN HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH TCCA CAR 571 AND IN RESPECT TO THAT WORK,THE ITEMS ARE APPROVED FOR RETURN TO SERVICE UNDER TCCA CERTIFICATE NO. 898-02.

13a. Certifies that the items identified above were manufactured in conformity to:	14a ☑ Part-145.A.50 Release to Service ☑ Other regulation specified in block 12
☐ approved design data and are in condition for safe operation ☐ non-approved design data 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	14c. Certificate/Approval Ref. No
		N. Seibel	DE.145.0022
13d. Name	**13e. Date (dd mmm yyyy)**	**14d. Name**	**14e. Date (dd mmm yyyy)**
		Norbert Seibel	14 FEB 2019

USER/INSTALLER RESPONSIBILITIES

This certificate does not automatically constitute authority to install the item(s).

Where the user/installer performs work in accordance with regulation 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. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG	WO22205

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
AIRLINE COMPONENT PARTS LLC; 1111 STANLEY DRIVE; EULESS, TX 76040 CRS# A47R475J	WO22205

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	DEPRIME VALVE	4141028-3	1	MFR95273-0690	OVERHAULED

12. Remarks:

CUSTOMER PURCHASE ORDER NUMBER 4208440558

UNIT OVERHAULED AND TESTED IAW OEM CMM 49-90-55 REV 2 DATED 06/29/2012

UNIT IDENTIFIED IN BLOCKS 7 & 8 ABOVE WAS OVERHAULED AND TESTED IAW CURRENT REGULATIONS AND IS APPROVED FOR RETURN TO SERVICE ALL PERTINENT DETAILS ARE ON FILE AT THIS FACILITY AND ARE AVAILABLE UPON REQUEST.

"CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 11 & 12 WERE 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.145.4113."

13a. Certifies the items identified above were manufactured in conformity to:	14a. ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 12
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data 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.:
			A47R475J
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed):	14e. Date (dd/mmm/yyyy):
		ANDY HOBBS	05 MAR 2019

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. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG	WO-188464

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
AERO DESIGN AND MANUFACTURING, FAA REPAIR STATION A5MR151J, 3409 EAST WOOD STREET, PHOENIX, AZ 85040, PH: (602) 437-8080	RO# N/A PO# 4208323472

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	Wire Harness	3888438-1	1	N/A	OVERHAULED

12. Remarks:

APPROVED TECHNICAL DATA: CMM 49-11-09 REV A DATED 11-20-06, ORI P34359 REV B 12-23-11, ORI P34914 REV D 08/6/18, ORI P35218 REV F 07-02-2013, ORI P35320 REV A 5/14/2014, ORI P35598 REV C 1/25/2018
SERVICE BULLETINS ACCOMPLISHED: N/A

CUSTOMER INSTRUCTIONS: N/A

ADDITIONAL INFORMATION: UNIT HAS BEEN OVERHAULED AND TESTED SERVICEABLE

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: 145.6073

DETAILS OF THIS WORK ORDER ARE ON FILE AT THIS FACILITY.

13a. Certifies the items identified above were manufactured in conformity to:	14a. ☑ 14 CFR 43.9 Return to Service ☑ Other regulation specified in Block 12
☐ Approved design data and are in a condition for safe operation. ☐ Non-approved design data 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.:
		Jerry Hopkins	A5MR151J
13d. Name (Typed or Printed):	**13e. Date (dd/mmm/yyyy):**	**14d. Name (Typed or Printed):**	**14e. Date (dd/mmm/yyyy):**
		JERRY HOPKINS	03 APR 2019

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. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/UNITED STATES	**AUTHORIZED RELEASE CERTIFICATE** FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	T13150084 -001

4. Organization Name and Address:	5. Work Order/Contract/Invoice Number:
MOOG INCORPORATED, AIRCRAFT GROUP SENECA & JAMISON ROADS EAST AURORA, NEW YORK 14052 UNITED STATES OF AMERICA (ND1R344K)	4208167133

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
001	ACTUATOR	B55968-004 (3886188-3)	1	5791	OVERHAULED

12. Remarks:

THE WORK REFERENCED IN BLOCK 11 WAS CARRIED OUT WITH REFERENCE TO THE FOLLOWING MAINTENANCE DATA.
MODEL 17-517C
SERVICE BULLETIN N/A
REF. CMM 49-50-07 REV 6
THE ATTACHED RETURN UNIT REPORT T13150084 DESCRIBES THE WORK PERFORMED.

MOOG INC. CERTIFIES THAT THE WORK SPECIFIED IN BLOCKS 11 / 12 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 145.4685

13a. Certifies the items identified above were manufactured in conformity to:	14a. [X] 14 CFR 43.9 Return to Service [X] Other regulation specified in Block 12
[ ] Approved design data and are in a condition for safe operation. [ ] Non-approved design data 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.:
		Vincent Marino	ND1R344K
13d. Name (Typed or Printed):	**13e. Date** (dd/mmm/yyyy):	**14d. Name** (Typed or Printed):	**14e. Date** (dd/mmm/yyyy):
		VINCENT MARINO	26/SEP/2018

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.

Honeywell Aerospace GmbH
Frankfurter Str. 41-65
65479 Raunheim
Germany

Honeywell

ACCEPTANCE TEST DATA SHEET

131-9A
Heavy Repair
(METRIC UNITS)

USED WITH
EM 49-27-29
REV. 12

UNIT OUTLINE	3800708-1	MODEL NO.	131-9A	SERIAL NO.	R-2157	DATE	23.04.2019
TEST CELL NO.	Cell 2	RUN NO.	1	SERVICE ORDER NO.		5013459163	
OIL USED MIL-	23699	TYPE	2380	FUEL USED MIL	5624	TYPE	JetA1
APU CONTROL UNIT PN		3888394-221204		S/N*	27	SLAVE*	Yes

QUANTITY	UNITS	ACTUAL
APU DRY WEIGHT (FROM APU TRAVELLER)	KG	N/R (Production only)
AUTOMATIC STARTS CHECK PARA. 8.H	SEC # 1	35
	SEC # 2	37
	SEC # 3	35
TOTAL NUMBER OF STARTS (DURING ATP)	NO.	4
TOTAL OPERATING TIME (DURING ATP)	HRS	1:30

Initial IGV Position (Degrees)	92,02	Initial PBCOR (BAR)	3,67
Final IGV Position (Degrees)	84,11	Final PBCOR (BAR)	3,55
ECS OFFSET (Final IGV - Initial IGV) =	-7,91	Degrees	

EGT SPREAD ECS / MES	33.0 DEGC Max.	ECS Mode:	10,40	MES Mode:	10,30
TAILPIPE SPREAD ECS / MES	17.0 DEGC Max.	ECS Mode:	11,18	MES Mode:	10,92

FLOW SENSOR CHECK PARA:	8.E (9) WBCDNA	0,378	KG/SEC
FLOW SENSOR CHECK PARA:	8.E (13) A WBCDNA	0,384	KG/SEC
FLOW SENSOR CHECK PARA:	8.E (13) B DIFF.(5% MAX)	-3,16	%
SCV STABILITY CHECK	8.F. (2) A SCV STABLE	OK x	NOT OK
SURGE MARGIN CHECK	8.G. (5) SURGE Test	OK x	NOT OK
LOAD CONTROL VALVE TEST	8.I.8 IS OK	OK x	NOT OK
LOAD CONTROL VALVE TEST	8.I.10 IS OK	OK x	NOT OK
APU FAULT	5.1 b IS OK	OK x	NOT OK
UNIT STATUS:	ACCEPT: x	REJECT	

TECHNICIAN _____ FT 26 DATE 23.04.2019

SUPERVISOR _____ E331089 DATE 23.04.2019

QUALITY ASSURANCE _____ DATE 23.04.2019

*INDICATE "LAB SLAVE" AND SERIAL NO. WHEN APPLICABLE

DSC-3800708-1
Page 2 of 2
SERIAL NO. R-2157

ACCEPTANCE TEST DATA SHEET
131-9A

USED WITH
EM 49-27-29
REV._____

ATP REFERENCE			8.D.1	8.D.2	8.D.4	8.D.5
QUANTITY		UNIT	NO LOAD	SHAFT LOAD	38°C COMBINED LOAD	50°C MES
BAROMETRIC PRESSURE (PBAR)		BAR abs	0,987	0,987	0,987	0,987
AVERAGE INLET TEMPERATURE (T1)		°C	21,60	22,09	27,40	27,82
UNIT INLET TEMPERATURE (TENIVA)		°C	21,88	22,25	27,44	27,44
OIL TEMPERATURE		°C	80,90	93,30	96,30	92,30
OIL PRESSURE		BAR	4,72	4,63	4,60	4,64
OIL TEMPERATURE SUMP ECB (ECB-TOIL)		°C	95,00	112,00	114,00	108,00
FUEL INLET TEMPERATURE		°C	19,90	19,30	20,40	22,10
FUEL INLET PRESSURE		BAR	1,552	1,494	1,404	1,491
GEARBOX PRESSURE		mBAR	1,09	-7,65	-23,83	-21,21
COMPRESSOR DISCHARGE STATIC PRESSURE		BAR abs	6,61	6,84	6,93	6,87
COMPRESSOR DISCHARGE TEMPERATURE		°C	304,10	308,80	321,80	320,70
TURBINE DISCHARGE TEMPERATURE (UNIT RAKES)	#1	°C	372,00	436,10	564,00	545,00
	#2	°C	369,30	438,30	574,40	555,30
EXHAUST GAS TOTAL TEMPERATURE (LAB - AVG)	ACTUAL	°C	321,64	363,96	558,02	539,23
	CORRECTED	°C	:::::::::::::::	:::::::::::::::	586,24	580,14
BLEED ORIFICE INLET TEMPERATURE		°C	:::::::::::::::	:::::::::::::::	191,50	198,90
BLEED ORIFICE INLET PRESSURE		BAR abs	:::::::::::::::	:::::::::::::::	3,412	3,689
BLEED ORIFICE DIFFERENTIAL PRESSURE		BAR diff	:::::::::::::::	:::::::::::::::	0,099	0,091
EXHAUST STATIC PRESSURE		BAR abs	:::::::::::::::	:::::::::::::::	0,983	0,983
IGV POSITION		DEG	:::::::::::::::	:::::::::::::::	84,11	92,11
CORRECTED DISCHARGE AIRFLOW (WBCDNA)		KG/SEC	:::::::::::::::	:::::::::::::::	0,433	0,404
BLEED AIRFLOW (WB)	Actual	KG/SEC	:::::::::::::::	:::::::::::::::	1,219	1,207
	Corrected*	KG/SEC	:::::::::::::::	:::::::::::::::	1,17	1,10
BLEED TOTAL PRESSURE (PB)	Actual	BAR abs	:::::::::::::::	:::::::::::::::	3,68	3,93
	Corrected*	BAR	:::::::::::::::	:::::::::::::::	3,55	3,65
BLEED TOTAL TEMPERATURE (TB)	Actual	°C	:::::::::::::::	:::::::::::::::	203,48	210,58
	Corrected*	°C	:::::::::::::::	:::::::::::::::	212,51	226,55
FUEL CONSUMPTION	Actual	KG/HR	76,71	94,42	126,26	120,22
	Corrected*	KG/HR	:::::::::::::::	:::::::::::::::	125,60	113,39
SHAFT OUTPUT (PWGEN)	Actual	kW	:::::::::::::::	82,01	69,51	45,86
SHAFT OUTPUT / SIGMA (SHPSL)	Corrected	KW	:::::::::::::::	99,53	84,36	55,65
UNIT VIBRATION	COOL. FAN	MM/SEC	7,544	8,712	8,585	8,306
	GEARBOX	MM/SEC	7,036	10,744	10,389	8,306
	TURBINE	MM/SEC	5,436	5,182	4,978	4,775
APU SPEED		RPM	48770	48750	48760	48770
REQUIREMENTS PER HEAVY REPAIR	MIN BLEED FLOW	KG/SEC	:::::::::::::::	:::::::::::::::	1,15	:::::::::::::::
	MIN BLEED PRESS	BAR abs.	:::::::::::::::	:::::::::::::::	3,53	3,52
	MAX IGV POSITION	DEG	:::::::::::::::	:::::::::::::::	92,50	:::::::::::::::
	Ref. FUEL FLOW	KG/HR	:::::::::::::::	:::::::::::::::	:::::::::::::::	122,0
	MAX EGT	°C	:::::::::::::::	:::::::::::::::	610,0	607,0
	SHAFT LOAD -0 +2	KW	:::::::::::::::	98,0	83,0	54,0
DIGITAL DATA SCAN		TIME	11:06:10	11:16:47	11:28:54	11:38:42
		DATE	04/23/2019	04/23/2019	04/23/2019	04/23/2019
DIGITAL DATA POINT		XXXX	1001	1002	1003	1004

WE CERTIFY THE ABOVE DATA IS TRUE AND CORRECT AND IN ADDITION, THE APU HAS SUCCESSFULLY MET ALL OTHER TEST REQUIREMENTS SPECIFIED IN THE LATEST REVISION OF THE APPLICABLE TEST SPECIFICATION INDICATED ABOVE.

QS:1645/2017 ÄZ:02.31.07.2018