

1. Approving Civil Aviation
Authority/Country:
FAA United States

2.

AUTHORIZED RELEASE CERTIFICATE
FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
Q.A.-1694-628-2018

4. Organization Name and Address:

5. Work Order/ Contract/ Invoice
Number:
2018E-628

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1.	ENGINE	CFM56-5B2/P	1	575212	REPAIRED

12. Remarks: **ENGINE: T.T. : 38616 T.C. : 24996**

1. CUSTOMER [REDACTED] RO: R2610917 (ETR 315 REV 1).
2. REMOVED FROM A/C I-BIKC POS 1.
3. ENGINE RECEIVED FOR PERFORMANCE RESTORATION AND LLP's REPLACEMENT.
4. ENGINE WAS INSPECTED, REPAIRED AND TESTED AS REQUIRED IN ACCORDANCE WITH ENGINE SHOP MANUAL P/N: CFMI-TP.SM.9 REV.72 MAR 15, 2018.
5. ENGINE WAS CONVERTED FROM -5B4/P ENGINE DASH TO -5B2/P ENGINE DASH I.A.W CFMI SB 72-0625R2.
6. FOR DETAILS OF MAINTENANCE REFER TO MAINTENANCE RELEASE FORM APP. 2
7. FOR AD's INCORPORATED REFER TO APP. 6.
8. FOR SB's INCORPORATED REFER TO MAINTENANCE RELEASE FORM APP. 2
9. FOR TEST SUMMARY SHEET REFER TO APP. 12
10. FOR ENGINE BORESCOPE CHECK REFER TO APP. 13
11. ENGINE OIL AND FUEL SYSTEMS PRESERVED FOR 365 DAYS I.A.W ESM ESM TASK 72-00-00-500-001-0. EXPIRY DATE APR 10, 2019.
12. OPEN ACTION ITEMS MUST BE CLOSED BY THE CUSTOMER PRIOR TO INSTALLATION ENGINE ON A/C.

13a. Certifies the items identified above were manufactured in conformity to:		14a <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input 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 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: [REDACTED]	14c. Approval Certificate No.: [REDACTED]
13d. name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): [REDACTED]	14e. Date (dd/mmm/yyyy): 16 APR 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 Block 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.

FAA CRS No.MK1Y325K
 EASA APPROVAL No. 145.0029
 C.A.A.I-01

Life Limited Parts for: CFM56-5B2/P

Eng s/n: 575212

Customer: [REDACTED]

TSN: 38616.00

CSN: 24996

Cycles remaining:

CFM56-5B2/P : 9086 CFM56-5B4/P : 9086

ENG. WORK RECORD NO.: 2018E628

Description	P/N	S/N	TSN	CSN	Total Cycles				Cycles Limit		Remaining Cycles		Remarks
					5B3/P	5B5/P	5B2/P	5B4/P	5B2/P	5B4/P	5B2/P	5B4/P	
FAN & BOOSTER MODULE	SMDL1/P	21X75212	38616	24996									
FAN DISK	338-001-504-0	BA989279-D	45876	18860	18860	0	0	0	30000	30000	11140	11140	
BOOSTER SPOOL	338-001-906-0	DY913055	0	0	0	0	0	0	30000	30000	30000	30000	
NO.1 & NO.2 BRG. SUPPORT	SMDL2	22X75212	38616	24996									
FAN SHAFT ASSY.	338-010-601-0	DC902481	29306	19998	0	19998	0	0	30000	30000	10002	10002	
HPC ROTOR MODULE	SMDL5/P	31X75212	38616	24996									
HPC FRONT SHAFT	1386M56P03	GWN0MW4D	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
SPOOL C.STG. 1-2	1558M31G07	GWN0N2RM	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
COMP. DISK STG.3	2116M23P01	XAES6944	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
SPOOL C.STG. 4-9	2048M20G03	GWN0MTHW	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
CDP ROT. AIR SEAL	2116M25P01	GFF5FC87	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
HPT ROTOR MODULE	SMDL11/P	52X75212	38616	24996									
HPT FRONT SHAFT	2048M21P03	XAES8246	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
HPT FRONT AIR SEAL	2116M20P02	TMT5CP31	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
HPT DISK	1498M43P07	GWN0MK17	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
HPT REAR SHAFT	1864M90P04	TMT7U389	14417	10914	0	0	4041	6873	20000	20000	9086	9086	
LPT ROTOR MODULE	SMDL13/P	54X75212	38616	24996									
LPT CASE	338-117-455-0	DB675043	38616	24996	0	0	4041	20955	N/L	N/L	N/L	N/L	SB.72-0706 CW
LPT DISK STG.1	336-001-804-0	PC657242	0	0	0	0	0	0	25000	25000	25000	25000	
LPT DISK STG.2	336-001-909-0	PC703907	0	0	0	0	0	0	25000	25000	25000	25000	
LPT DISK STG.3	336-002-006-0	PC665440	0	0	0	0	0	0	25000	25000	25000	25000	
LPT DISK STG.4	336-002-105-0	PC665015	0	0	0	0	0	0	25000	25000	25000	25000	
LPT ROTOR SUPPORT	340-301-702-0	DY287965	0	0	0	0	0	0	25000	25000	25000	25000	SB.72-0814 CW
LPT SHAFT MODULE	SMDL14	55X75212	38616	24996									
LPT SHAFT	338-010-005-0	PC604090	0	0	0	0	0	0	25000	25000	25000	25000	
TURBINE FRAME ASSY	SMDL15/P	56X75212	38616	24996									
FRAME ASSY. LPT	338-171-703-0	LA084672	38616	24996	0	0	4041	20955	29696	29696	4700	4700	*

Remarks: ENGINE WORK RECORD NO. 2018E628 REPAIRED AND TESTED AT ENGINE T.S.N.: 38616 C.S.N.: 24996; LLP'S REPLACED AT THIS SHOP VISIT:
 FAN DISK, FAN SHAFT {O/H}; BOOSTER SPOOL & LPT MAJOR MODULE LLP'S {NEW}

* THIS LIMIT IS FOR INSPECTION ONLY

Date: 10 Apr. 2018

CUSTOMER
ENGINE Type
S/N

CFM56-5 B2/P
575212

T. TIME

24199

T. CYCLES

14082

Date
W.O.

25-gen-11
000013850

Production Quality Control Department

LIFE LIMITED PARTS STATUS

ITEM	DESCRIPTION	P/N	S/N	TOTAL		LIMITS - CYCLES						RESIDUAL LIFE - CYCLES								
				HRS	CYS	B6/3	B2/P	B4/P	B6/P	B non/P	B6/3	B2/P	B4/P	B6/P	B non/P	B6/3	B2/P	B4/P	B6/P	B non/P
SMDL 1	21x FAN and BOOSTER	SMDL1	21X 75700																	
211	BOOSTER SPOOL	338-001-906-0	B8443969	24199	14082	0	0	14082	0	0	30.000	30.000	30.000	30.000	30.000	15.918	15.918	15.918	15.918	15.918
213	FAN DISK STG 1	338-001-504-0	BB459750	24199	14082	0	0	14082	0	0	30.000	30.000	30.000	30.000	30.000	15.918	15.918	15.918	15.918	15.918
SMDL 2	22x #1 & 2 BRG SUPPORT	SMDL2	22X 75212																	
221	FAN SHAFT	338-010-601-0	DB688143	24199	14082	0	0	14082	0	0	30.000	30.000	30.000	30.000	30.000	15.918	15.918	15.918	15.918	15.918
SMDL 5	31x HPC ROTOR ASSY	SMDL5/P	31X 75212																	
312	HPC SHAFT	1386M56P03	GWN0MW4D	0	0	0	0	0	0	0	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000
313	SPOOL STG 1 - 2	1558M31G07	GWN0N2RM	0	0	0	0	0	0	0	20.000	20.000	20.000	20.000	N/A	20.000	20.000	20.000	20.000	N/A
314	HPC DISK STG 3	2116M23P01	XAES6944	0	0	0	0	0	0	0	20.000	20.000	20.000	20.000	N/A	20.000	20.000	20.000	20.000	N/A
315	SPOOL STG 4 - 9	2048M20G03	GWN0MTHW	0	0	0	0	0	0	0	20.000	20.000	20.000	20.000	N/A	20.000	20.000	20.000	20.000	N/A
316	CDP ROT AIR SEAL	2116M25P01	GFF5FC87	0	0	0	0	0	0	0	20.000	20.000	20.000	20.000	N/A	20.000	20.000	20.000	20.000	N/A
SMDL 11	52x HPT ROTOR ASSY	SMDL11/P	52X 75212																	
521	FRONT SHAFT	2048M21P03	XAES8246	0	0	0	0	0	0	0	20.000	20.000	20.000	20.000	N/A	20.000	20.000	20.000	20.000	N/A
522	FRONT AIR SEAL	2116M20P02	TMT5CP31	0	0	0	0	0	0	0	20.000	20.000	20.000	20.000	N/A	20.000	20.000	20.000	20.000	N/A
525	HPT DISK	1498M43P07	GWN0MK17	0	0	0	0	0	0	0	20.000	20.000	20.000	20.000	N/A	20.000	20.000	20.000	20.000	N/A
526	HPT REAR SHAFT	1864M90P04	TMT7U389	0	0	0	0	0	0	0	20.000	20.000	20.000	20.000	N/A	20.000	20.000	20.000	20.000	N/A
SMDL 13	54x LOW PRESS TURBINE	SMDL13/P	54X 75212																	
541	LPT CASE	338-117-452-0	DB675043	24199	14082	0	0	14082	0	0	N/L	N/L	N/L	N/L	N/A	N/L	N/L	N/L	N/L	N/A
542	LPT STG 1 DISK	336-001-804-0	BB580951	24199	14082	0	0	14082	0	0	25.000	25.000	25.000	25.000	25.000	10.918	10.918	10.918	10.918	10.918
543	LPT STG 2 DISK	336-001-909-0	BB587164	24199	14082	0	0	14082	0	0	25.000	25.000	25.000	25.000	25.000	10.918	10.918	10.918	10.918	10.918
544	LPT STG 3 DISK	336-002-006-0	BB587291	24199	14082	0	0	14082	0	0	25.000	25.000	25.000	25.000	25.000	10.918	10.918	10.918	10.918	10.918
545	LPT STG 4 DISK	336-002-105-0	DB688224	24199	14082	0	0	14082	0	0	25.000	25.000	25.000	25.000	25.000	10.918	10.918	10.918	10.918	10.918
546	LPT CONICAL SUPPT	338-077-502-0	BB474879	24199	14082	0	0	14082	0	0	25.000	25.000	25.000	25.000	25.000	10.918	10.918	10.918	10.918	10.918
SMDL 14	55x LPT SHAFT	SMDL14	55X 75212																	
551	LPT SHAFT	338-010-005-0	BB528706	24199	14082	0	0	14082	0	0	25.000	25.000	25.000	25.000	25.000	10.918	10.918	10.918	10.918	10.918
SMDL 15	56x LPT FRAME	SMDL15	56X 75212																	
561	TURBINE REAR FRAME	338-171-703-0	LA084672	24199	14082	0	0	14082	0	0	Refer to 05-21-03					N/A				

1. Approving National Aviation Authority/Country: FAA/United States	2.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number: 10-E08310
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4. Organization Name and Address:	5. Work Order/Contract/Invoice Number: E08310		
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6. Item:	7. Description:	8. Part Number	9. Eligibility:	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
1	SPOOL ASSY-CPRSR ROTOR STAGES 1 2	1558M31G07	N/A	1	GWN0N2RM LGM 007	NEW

13. Remarks: EXPORT - THIS PART MEETS THE SPECIAL REQUIREMENTS OF FRENCH REPUBLIC

14. Certifies the items identified above were manufactured in conformity to:	<input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13
<input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.	Certified that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 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.

15. Authorized Signature: [REDACTED]	16. Approval/Authorization No.: [REDACTED]	20. Authorized Signature: [REDACTED]	21. Approval/Certificate No.: [REDACTED]
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17. Name (Typed or Printed): [REDACTED]	18. Date: Oct. 25, 2010	22. Name (Typed or Printed): [REDACTED]	23. Date: [REDACTED]
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User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

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 parts/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in block 14 and 19 do not constitute certification. In all cases, aircraft maintenance records must contain an certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.