

ENGINE MINIPACK



CFM56-3C1 - ESN 858996 - 5,020 CR CONDITION: SERVICEABLE - FRESH REPAIR RECORDS: FULL BTB TRACE & NIS INCLUDES: STAND & QEC LOCATION: MIAMI PRICE: UPON REQUEST AVAILABLE: IMMEDIATELY - READY TO SHIP TESTED: 40 ° EGT AT 23.5K THRUST (CAT C)

TMC Engine Center, Inc

8545 NW 79th Avenue Medley, FL 33166 USA

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FAA Part-145 Repair Station Number: Z5LR447Y EASA Part-145 Approval Number: 145.5678

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TMC Engine Center, Inc. FAA CRS Z5LR447Y 8545 NW 79th Avenue Medley, Florida 33166

LIFE LIMITED PARTS STATUS

ENGINE SERIAL NUMBER: 858996

CUSTOMER: TMC

ENGINE TOTAL TIME: 46,343.52

ENGINE MODEL: CFM56-3C1

ENGINE TOTAL CYCLES: 24,980

WORK ORDER: CFM1052

DESCRIPTION	PART NUMBER	SERIAL NUMBER	A CYCLE LIMIT	B CYCLE LIMIT	C CYCLE	2C-1 LIMIT	A CYCLE TOTALS	B CYCLE TOTALS	C CYCLE TOTALS			B CYCLE REMNG	C CYCLE REMNG	REPLACED	REMOVED FROM ESN / W
FAN ROTOR	NOMBER	NOMBER													
FAN DISK	335-014-511-0	BB687415	30000	24900	20100	1	2035	6903	0		19648	16308	13164	YES	ESN 720976-3C1
BOOSTER SPOOL	335-009-306-0	BC454309	30000	30000	30000	1	7097	5453	0		17450	17450	17450	YES	ESN 720976-3C1
FAN SHAFT HPC ROTOR	335-006-414-0	DA703777	30000	30000	30000	1	8883	16097	0		5020	5020	5020		
HPC KUTUK															
FRONT SHAFT	1275M37P02	GWN0A7MM	20000	20000	20000	1	6429	2296	5891		5384	5384	5384		
STG. 1-2 SPOOL	1589M66G02	GWN0GFA2	20000	20000	20000	1	6429	2296	3067		8208	8208	8208		
STG. 3 DISK	1590M59P01	XAEL8176	20000	20000	20000	1	8154	0	0		11846	11846	11846	YES	ESN 721818-3B1
STG. 4-9 SPOOL	1588M89G03	GWN0C7TE	20000	20000	15800	1	1937	11428	0		6635	6635	5241	YES	ESN 857683-3C1
CDP REAR SEAL	1319M25P02	GFF5EE03	20000	18000	15000	1	8154	0	0		11846	10661	8884	YES	ESN 721818-3B1
HPT	Contrast Street 128	Print Print Print	812545 X 01	642420104		10000	1.111.111	3	04.026422	Sec. Sec.	起化实际的		ALC: NORTHER	Region della	101.001.001.001.001
FRONT SHAFT	1385M90P04	XAEJ3448	20000	17300	17000	1	6429	2296	3067		7308	6321	6212		
FRONT AIRSEAL	1282M72P05	XAEJ5674	20000	15800	15100	1	8154	0	0		11846	9358	8943	YES	ESN 721818-3B1
DISK	1475M29P03	GWN0G8LG	20000	18500	16600	1	6429	2296	3067		7393	6839	6136		
REAR SHAFT	9514M71P07	TMTRY503	25000	20000	15800	1	3115	7749	1848		9275	7420	5862	YES	ESN 858691-3C1
LPT	也建筑性物产生		120700	2291294	10/67-22/20	Selection of the	23 12 2013	413-241-3	Land Strang	217.122	1000	Charles and	Martin Martin	200.000	e serentings
STG. 1 DISK	301-331-126-0	BC324944	25000	25000	25000	1	5909	634	0		18457	18457	18457	YES	ESN 725876-3B2
STG. 2 DISK	301-331-227-0	BA944484	25000	25000	25000	1	15251	634	0		9115	9115	9115	YES	ESN 725876-3B2
STG. 3 DISK	301-331-322-0	BC290826	25000	25000	25000	1	5909	634	0		18457	18457	18457	YES	ESN 725876-3B2
STG. 4 DISK	301-331-429-0	BC261470	25000	25000	25000	1	5909	634	0		18457	18457	18457	YES	ESN 725876-3B2
LPT SHAFT	301-330-067-0	LA119015	30000	30000	30000	1	5909	634	0		23457	23457	23457	YES	ESN 725876-3B2
LPT STUB SHAFT	301-330-626-0	BB698448	25000	25000	25000	1	5909	634	0		18457	18457	18457	YES	ESN 725876-3B2
ONICAL SUPPORT	305-056-116-0	DC548244	25000	25000	25000	1	5909	634	0		18457	18457	18457	YES	ESN 725876-3B2
ormation for all disks			r. Docume	ntation and	/or trace for	disks re	placed is o	n file at TM	C Engine C	enter, Inc	. under the	e referrence	ed Work Or	der Number.	1
marks:												REVISED		h	103121202h

ENGINEERING

DATE

Authority/Country: FAA/United States AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3 AIRWORTHINESS APPROVAL TAG 4. Organization Name and Address: TMC Engine Center, Inc.	
	0321CFM1052-48703
With Engine Center, Inc.	5. Work Order/Contract/Invoice Number: CFM1052
6. Item: 7. Description: 8. Part Number: 9. Quantity: 10. Serial Number:	11. Status/Work:
1 ENGINE CFM56-3C1 1 858996	REPAIRED
365 DAYS. THE FOLLOWING AD NOTES WERE COMPLIED WITH THIS VISIT: 2002-13-03, 2006-26-01, 2013-26-01, 2017-14-08 R1, & 2020-0261. SEE TMC-ENG-07CFM56. ALL WORK PERFORMED IS RECORDED AT THIS FACILITY UNDER TMC WORK ORDER NUMBER: CFM1052. DETAILED IN WORK ACCOMPLISHED IS RECORDED IN FAA FORM 337, AND IT IS IN COMPLIANCE WITH FAR 43.9. THE WORK SPECIFIED IN BLOCK 11 ANI I/A/W FAR 145. TRACED TO: ESN - 858996 - CFM56-3C1 TSN: 46,353.52 CSN: 24,980	NFORMATION OF THE
13a. Certifies the items identified above were manufactured in conformity to: □ 14a. ✓ 14 CFR 43.9 Return to Service ○ Other regulation specifie □ Approved design data and are in a condition for safe operation. □ 14 CFR 43.9 Return to Service ○ Other regulation specifie □ Non-approved design data specified in Block 12. Block 12 was accomplished in accordance with Title 14, Code of Federal Return to service.	Block 11 and described in
13b. Authorized Signature: 13c. Approval Authorization No.: 14b. Authorized Signature: 14c. Approx	roval/Certificate No.: Z5LR447Y
	(dd/mmm/yyyy): 02 / MAR / 2021
User/Installer Responsibilities	
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 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 w national regulations by the user/installer before the aircraft may be flown.	

	RK ORD 007930 II. DATE					>								IV. A	II. STATIO KOPF /C REG / MSN2659	MSN
F	EB-26-20)21				ENG		DEDEOR	N.L.NOR	D 1 77 1		_				
	ER SETTI	NG				ENC	GINE RUN	PERFOR	RMANCE	DATA VI. REAS	ON			TECT 40		
_	UST RAT					23.5k				VI. REAS				TEST 10		
			-			20.00										
VIII. Eng.			_													
Pos. 1		ne Model 56-3C1		ine S/N 3996		XI. MEC P/ 8063-21			rk order 7930		XIII. PMC P/I			ANK N.	XV. Fuel	
2	CI M.	J0-JCI	050	550		8003-21		00	/930	- '	157M68P0	94		l.1 l.2		100 100
										FUI	EL TYPE: JE	TA		TR		00
														TAL		400
							1. ENGINE	TEST DA	DAMETER	6						
													_			
-	Chatle	ever Adv.	-	-	CTADITO	Engine S	itart Data	(EGT no	t to exce	ed 725 °C)	_				
ENGINE	N2%	Motoring	INITIAL	LIGHT-UP	STARTER		X EGT	MAX FI	JEL FLOW		TO IDLE		ENGI	NE OIL	1	AVM UNITS
POSITION		Time Sec.	FUEL FLOW	TIME SEC.	N2%	(CENTR	IGRADES)			9	SEC	QT	1	TEMP	PRESSURE	UNITS
1	26.0%	13	0.5	13	46.0%	6	516).9		55	3.5	;	45	35	0.2
2		1														
	-	_	_					. 4 - IDL							-	
ENGINE	OAT (°C)	BARO					<i>mit: +3.0</i> v Idle (N2		.%	1		High Id		+3.0 /		
POS.					Ta	raet			orded			Targ				orded
1	28	30			E	52]	6	1.8]	-	72.				2.5
2																
ENGINE		<u> </u>	TARCET		-	Test No.	5A Power	Assuran								-
POS.	OAT (°C)	BARO	TARGET N1	N1	%	N	2%	EGI	(°C)	corded Va	FLOW	01	22.0	OP		Vibe
1	28	30	81.7%	81	200		4.4		15	A De La se	.74	120		50		0.5
2																
NOME		TARGET				Test #!	5A Power	Assuranc								
NGINE POS.	OAT (°C)	N1	Recorded V	alues		ADJ EGT	MAX EGT	BASE EGT	TCC TIMER MARGIN	TCC TIMER OFF OR ON	THRUST		12 adj for	adjusted	MAX N2	%N2
21			N1%	N2%	EGT	FOR N1	23.5k	MARGIN	ADJ	Y/N	RATING			NZ		Margin
1	28	81.7%	81.7	94.4	715	0	736	21	N/A	OFF	23.5k	-	0	94.4	95.10	0.70
2						Test No.	5B Power	Assuran	ce Check	(85% N1						
ENGINE	OAT (°C)	BARO	TARGET			10501101	DD i offici	reseren		corded Va						
POS.			N1	N1	96	N	2%	EGT	`(°C)	FUEL	FLOW	OT		OP		Vibe
1	28	30	86.8%	86	.8	9	6.4	7	60	6.	.76	120		50		0.6
2		-				Tost #5	B Power	Seuranc	o Chock (2506 N1)						_
ENGINE		1.5 L.	1000 0	-					TCC TIMER	TCC TIMER	THRUST					
POS.	OAT (°C)	TARGET N1	Recorder N1%	d Values M2%	EGT	ADJ EGT	MAX EGT 23.5k	BASE EGT MARGIN	MARGIN	OFF OR ON	RATING	1	2 adj for	adjusted	MAX N2	%N2
1	28	86.8%	86.8%	96.4	760	FOR N1 0	787	27	ADJ N/A	Y/N OFF	23.5k	-	0	N2 96.4	97.00	Margin 0.60
2	I												-			
						Test No.	5C Power	Assuran				1.2.1.2				
ENGINE POS.	OAT (°C)	BARO	TARGET N1	1.01	16	-	201	1 1000		orded Va		2				
1	28	30	91.9%	N1 91			2% 3.2		(°C) 09	the second se	FLOW 06	OT 125		0P 55		Vibe 0.4
2	_0		51.570				J.C.	0		0.	00	125		55		0.4
					1	Test #5	C Power	ssurance	e Check (
ENGINE	OAT (°C)	TARGET	Recorded	Values		ADJ EGT	MAX EGT	BASE EGT		TCC TIMER OFF OR ON	THRUST		2 adj for	adjusted	MAX N2	%N2
POS.		N1	N1%	N2%	EGT	FOR N1	23.5k	MARGIN	TCC TIMER	Y/N	RATING			N2	1 0 0 1 1 2	Margin
2	28	91.9%	91.9%	98.2	809	0	847	38	N/A	OFF	23.5k	_	0	98.2	99.20	1.00
0																
			TADOTT		_	Te	st No. 5D		ACCESSION OF A				-		-	C.D.
ENGINE POS.	OAT (°C)	BARO	TARGET N1	N1	%	N	2%		orded Va (°C)		FLOW	RED LI	NE	MARGIN	4.IN	SP.
	20	30	98.4%	98.			0.7		90		.01	930		40	VANJY	1/
1	28	30 1	JU. 470 1	50.												

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FEB-26-2021 MSN 26596 ENGINE RUN PERFORMANCE DATA TEST NO. 6 - MEC TRIM PMC ON (%0x1) PMC ON (%0x2) PMC ON (%0x2) PMC ON (%0x2) PMC ON (%0x2) 1 PMC ON (%0x2) 1 PMC ON (%0x2) TEST NO. 5 - MEC TRIM NO TARGET RECORDED TARGET Selection Switch Position GOAT BARO BARO SELECTOR Switch Position Selection Switch Position <th co<="" th=""><th>IN DATE FEB-26-2021 IN: ACC REG 7 MSN IN: DATE FEB-26-2021 IN: ACC REG 7 MSN MIND PMC OFF (%M2) PMC ON (%M3) IN: ACC REG 7 MSN MIND PMC ON (%M3) CONT PMC ON (%M3) IN: ACC REG 7 IN: ACC REG 7 MIND PMC ON (%M3) CONT TEST NO. 5 - MEC TRIM IN: ACC REG 7 VIBRATION READING (UNITS) ACC REL DEC EL SMI 1 VIBRATION READING (UNITS) MEMA VIBRATION READING (UNITS) SMI 1 SMI</th><th>i. WO</th><th>RK ORDE</th><th>R No.</th><th></th><th></th><th></th><th></th><th>a .</th><th></th><th></th><th>_</th><th></th><th></th><th></th><th>III. STATIO</th><th>N</th></th>	<th>IN DATE FEB-26-2021 IN: ACC REG 7 MSN IN: DATE FEB-26-2021 IN: ACC REG 7 MSN MIND PMC OFF (%M2) PMC ON (%M3) IN: ACC REG 7 MSN MIND PMC ON (%M3) CONT PMC ON (%M3) IN: ACC REG 7 IN: ACC REG 7 MIND PMC ON (%M3) CONT TEST NO. 5 - MEC TRIM IN: ACC REG 7 VIBRATION READING (UNITS) ACC REL DEC EL SMI 1 VIBRATION READING (UNITS) MEMA VIBRATION READING (UNITS) SMI 1 SMI</th> <th>i. WO</th> <th>RK ORDE</th> <th>R No.</th> <th></th> <th></th> <th></th> <th></th> <th>a .</th> <th></th> <th></th> <th>_</th> <th></th> <th></th> <th></th> <th>III. STATIO</th> <th>N</th>	IN DATE FEB-26-2021 IN: ACC REG 7 MSN IN: DATE FEB-26-2021 IN: ACC REG 7 MSN MIND PMC OFF (%M2) PMC ON (%M3) IN: ACC REG 7 MSN MIND PMC ON (%M3) CONT PMC ON (%M3) IN: ACC REG 7 IN: ACC REG 7 MIND PMC ON (%M3) CONT TEST NO. 5 - MEC TRIM IN: ACC REG 7 VIBRATION READING (UNITS) ACC REL DEC EL SMI 1 VIBRATION READING (UNITS) MEMA VIBRATION READING (UNITS) SMI 1 SMI	i. WO	RK ORDE	R No.					a .			_				III. STATIO	N			
FEB-26-2021 MSN 26596 ENGINE RUN PERFORMANCE DATA TEST NO. 6 - MEC TRIM PMC ON (%0x1) PMC ON (%0x2) PMC ON (%0x2) PMC ON (%0x2) PMC ON (%0x2) 1 PMC ON (%0x2) 1 PMC ON (%0x2) TEST NO. 5 - MEC TRIM NO TARGET RECORDED TARGET Selection Switch Position GOAT BARO BARO SELECTOR Switch Position Selection Switch Position <th co<="" td=""><td>FEB-26-2021 MSN 26596 TEST NO. 6 - MEC TRIM TEST NO. 6 - MEC TRIM FNG NO AT BARO WIND PMC OFF (%h2) PMC ON (%h1) TEST NO. 6 - MEC TRIM REGORDED TARGET RECORDED TREST NO. 7 - VIERATION TARGET RECORDED TEST NO. 7 - VIERATION READING UNITS) DECEL OAT BARO STATIC T.O. TARGET (%h1) SELECTOR SWITCH POSITION 1 28 30 30 98.4 OFF OFF SELECTOR SWITCH POSITION 1 28 30 30 98.4 OFF OFF</td><td></td><td>007930</td><td></td><td></td><td></td><td></td><td></td><td>\sim</td><td>TOF</td><td>ME</td><td></td><td></td><td></td><td></td><td>OPF</td><td></td></th>	<td>FEB-26-2021 MSN 26596 TEST NO. 6 - MEC TRIM TEST NO. 6 - MEC TRIM FNG NO AT BARO WIND PMC OFF (%h2) PMC ON (%h1) TEST NO. 6 - MEC TRIM REGORDED TARGET RECORDED TREST NO. 7 - VIERATION TARGET RECORDED TEST NO. 7 - VIERATION READING UNITS) DECEL OAT BARO STATIC T.O. TARGET (%h1) SELECTOR SWITCH POSITION 1 28 30 30 98.4 OFF OFF SELECTOR SWITCH POSITION 1 28 30 30 98.4 OFF OFF</td> <td></td> <td>007930</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>\sim</td> <td>TOF</td> <td>ME</td> <td></td> <td></td> <td></td> <td></td> <td>OPF</td> <td></td>	FEB-26-2021 MSN 26596 TEST NO. 6 - MEC TRIM TEST NO. 6 - MEC TRIM FNG NO AT BARO WIND PMC OFF (%h2) PMC ON (%h1) TEST NO. 6 - MEC TRIM REGORDED TARGET RECORDED TREST NO. 7 - VIERATION TARGET RECORDED TEST NO. 7 - VIERATION READING UNITS) DECEL OAT BARO STATIC T.O. TARGET (%h1) SELECTOR SWITCH POSITION 1 28 30 30 98.4 OFF OFF SELECTOR SWITCH POSITION 1 28 30 30 98.4 OFF OFF		007930						\sim	TOF	ME					OPF				
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ENG POS OAT (°C) BARO STATIC T.O. ACCEL CHECK TARGET LOW IDLE TO 40% N1 (Differential Limit of 4 Sec. Between Engines) 40% N1 TO ACCEL CHECK TARGET (Differential Limit of 2 Sec. Between Engines) 1 28 30 98.4 96.4 N/A N/A 6.4 2 0 0 0 0 0 0 0	ENG POS OAT (°C) BARO STATIC T.O. ACCEL CHECK TARGET LOW IDLE TO 40% N1 (Differential Limit of 4 Sec. Between Engines) HIGH IDEL TO CHECK TARGET (CHECK TARGET (Differential Limit of 2 Sec. Between Engines) 1 28 30 98.4 96.4 N/A N/A ACCEL CHECK CHECK TARGET (Differential Limit of 2 Sec. Between Engines) HIGH IDEL TO ACCEL CHECK TARGET (7.4 Sec. I Sec. Between Engines) 1 28 30 98.4 96.4 N/A N/A 6.4 2 4.1NSP. MANN VOTE: ENGINES WITH THE HPTCC TIMER, Adjust the EGT and N2 margins for these effects: HPTCC Timer On engines operated at 2000 pounds thrust or less, increase the EGT margin by 17C. 4.1NSP. MANN M3356502	2	_		-		-	163		and the second se	and the second se	CK		ACCE	TIME (SEC	3					
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	TEST #5 USED RECORDED PARAMETER AT APPLICABLE 90% MPA FAN SPEED.	REMAR	KS, DISC	REPANCI	ES.											1					
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disposition of §46301(a)) 1. Aircraft	(Airfrar	e all entri ort is req d Registra	werplant es. See Titl uired by lav ation Mark	v (49 U.S.C. §4	or A .9, Pa	rt 43 Appendix B, a	Seria Mod Addi Addi	2/28/201 C 43.9-1 (or sult in a civ al No.	2120-002 1 r subseque /il penalty f	For FAA L	nereof) for instructions and n violation. (49 U.S.C.
2. Owner							City Zip				State Country
					3. Fo	or FAA Use Only					
4. Repair	Type Alteration	l	Unit		Ν	5. Unit Identifica Iake	ation		Model		Serial No.
		AIRFR	AME					(As descri	ibed in Iten	n 1 above)	
X		POWE	RPLANT	CFM I	NTE	RNATIONAL		CI	FM56-30	C1	858996
		PROPE	ELLER								
		APPLIA	ANCE	Type Manufacture		formity Statement					
A. Agency's	Name and Address	S		6		Kind of Agency					
	MC Engine Ce		С			U.S. Certificated					facturer
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Zip 33	166 Country	USA				Certificated Main	ntenan	ice Organiz			Z5LR447Y
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				cified below, the		al for Return to Ser identified in item 5 v	was ir		the mann	er prescribed	l by the
Admin	istrator of the Fede	eral Aviati	ion Adminis	tration and is		☑ Approved		Rejected			
вү —	FAA Flt. Standar Inspector	ds	Manufact	urer	Mai	intenance Organiza	ation			partment of T	ed by Canadian ransport
	FAA Designee	x	Repair St	ation	Ins	pection Authorizatio	on	1		specify)	
				e/Date of Autho			M	tel	lem	M	/larch 2 ND , 2021

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft records. An alteration must be Compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)
Work Order: CFM1052 , Model: CFM56-3C1 Engine Serial Number: 858996 Engine Total Time: 46,343.52 ; Engine Total Cycles: 24,980
CUSTOMER: TMC ENGINE CENTER
 CFM International CFM56-3C1 engine was disassembled, inspected and repaired as required. Replacement of LLP & Main Line Bearing Inspection, was performed.
2. Performed incoming inspection and inventory.
THE FOLLOWING WAS ACCOMPLISHED:
3. FAN & BOOSTER MODULE (ATA 72-21):
A. It was replaced with a Serviceable module.
4. NO. 1 & NO. 2 BEARING SUPPORT MODULE (ATA 72-22):
 A. Performed a Full Workscope and routed the No. 1 and No. 2 Bearings for Cleaning and Inspection. Installed the No. 1 and No. 2 Bearings in Serviceable condition. B. Inspected the Fan Shaft for Serviceability. Complied with AD 2002-13-03.
5. <u>INLET GEARBOX</u> (ATA 72-61):
A. Performed a Full Workscope and installed the No. 3 Bearing in Serviceable condition.
6. <u>FAN FRAME</u> (ATA 72-23):
A. Disassembled as required, cleaned, inspected, repaired & re-assembled. B. Installed a No.3 Brg. AFT. Stationary Seal in OHC. C. Installed VBV doors in OHC.
7. HPC ROTOR SECTION (ATA 72-31, -32, -33):
A. Disassembled as required, cleaned, inspected, repaired & re-assembled. B. Replaced Stages 1, 2, & 3 seals with OHC units. C. Replaced Stage 3 Disk, 4-9 Spool & CDP Rear Seal with Serviceable units. D. Complied with AD 2017-08-14(VSV Pull Check).
8. COMBUSTION CASE ASSY & COMBUSTION CHAMBER (ATA 72-41, -42):
A. Disassembled as required, cleaned, inspected, repaired & re-assembled. B. Replaced the Combustion Chamber Module with an OHC assembly. C. Installed 20 ea. Bench Checked Fuel Nozzles.

Work Order: CFM1052 , Model: CFM56-3C1 Engine Serial Number: 858996

- 9. HPT NOZZLE (ATA 72-51):
 - A. Cleaned, & inspected Module for Serviceability.
 - B. Installed an OHC Aft Stationary Seal.

10. HPT ROTOR (ATA 72-52):

- A. Disassembled as required, cleaned, inspected, repaired, re-assembled & balanced.
- B. Replaced Front Rotating Airseal & Rear Shaft with Serviceable units.
- C. Match Grind of the Blade tips performed.

11. MOD 12 / LPT STG. 1 NOZZLES (ATA 72-53):

- A. Disassembled as required, cleaned, inspected, repaired & re-assembled.
- B. Replaced 46 ea. HPT Shrouds with OHC units.
- B. Performed match grind to the HPT shroud for optimal J05 clearance.

12. LPT MAJOR MODULE (ATA 72-54, 72-55, 72-56):

A. Replaced Major LPT Module, with a Serviceable module in a current preservation status.

B. Installed the No. 4, & No. 5 bearings in Serviceable condition.

13. **<u>TGB / AGB</u>** (ATA 72-62, 72-63):

- A. Visually Inspected TGB in-situ.
- B. Re-identified AGB and installed a Dynamic Seal to TERMINATE AD 2012-0209.

14. THE FOLLOWING AIRWORTHINESS / SERVICE BULLETINS WERE ACCOMPLISHED AT THIS SHOP VISIT:

A. Complied with Airworthiness Directives: 2002-13-03, 2006-26-01, 2013-26-01, 2017-14-08 R1, & 2020-0261.

15. Performed "ON WING" Test 10 IAW latest Revision of the B737 AMM for acceptance.

16. Accomplished 365 Day Preservation.

The subject engine was disassembled to the extent necessary to accomplish the repair, cleaned, inspected, repaired as required by the Customer Workscope, re-assembled, tested and found airworthy in accordance with the CFM International CFM56-3 ESM CFMI-TPSM5 REV 78, DTD. 12/15/2020. Pertinent details of the above are on file at this Repair Station under W.O. No. **CFM1052.**

-	F	N	D	-

FAA Form 337 (10-06)

Paperwork Reduction Act Statement: The reason for collecting this information is to track major maintenance performed on aircraft. The collected information is used as part of the aircraft's historical file. The public reporting burden for this collection of information is estimated to average 30 minutes per response. Responses are mandated by 14 CFR Part 43. Collected information becomes part of the public record and no confidentiality is required. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection is 2120-0020. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW Washington, DC 20591, Attn: Information Collection Clearance Officer, AES-200.



WORK ORDER:	CFM1052	CUSTOMER:	TMC ENGINE CE	NTER		DATE: MAR 02, 2021
ENGINE MODEL:	CFM56-3C1	ENGINE S/N:	858996	TT:	46,353.52	TC: 24,980
PCW = Previously ND = Not Disas	with at this shop visi	it. .eceived with upgraded er Specifications		NA2 NA3 NA4	Not Applicable DueNot Applicable DueNot Applicable Due	to Part Numbers

A.D. NUMBER EFF. DATE	PWA SERVICE BULLETIN	DESCRIPTION	State and the second second	TITIVE CTION NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
86-08-05R1 39-5339 F1986-066R1 EASA 07/07/1986	72-205 R3	To prevent engine shutdown from radial drive shaft disengagement. Applies to engine models: 3,and 3B.		x	NA1
89-13-51		Superseded by AD 96-25-11.			Superseded
89-23-06 R1 39-6370 F1989-181R3 EASA 11/11/89	72-530	Inspect the forward sump magnetic chip detector. Removal of certain No.3 bearings from service. Applies to engine models: 2, 3, 3B, 3C, 5.	х		NA3 to Bearing PN 1461M14P04 S/N MDAGN426 installed.
90-20-13 39-6679 F1990-031R2 EASA 10/14/90	72-494	Modify the Fan Module Assembly by installing Fan blade dampers P/N 335-105-305-0, axial stops P/N 335-105- 201-0 and bolts P/N J815P056A. Applies to engine models: 3B2, 3C1		x	NA3 to Damper 335-105-305-0 & 335-105-306 installed TSV.
91-02-10 39-6839 F1991-030 EASA 2/11/91	72-450 72-162	Install fan splitter fairing, fan stage 1 vane assy and new centering shroud. Applies to engine models: 3, 3B, 3C.		X	PCW and verified TSV. Splitter Fairing P/N 335-003-822-0 installed.

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W/O CFM1052 - ESN 858996

REVIEWED BY:_ Form: TMC-ENG-07CFM56 R0 07/01/2018 _DATE: March 2ND, 2021



A.D. NUMBER	PWA SERVICE	DESCRIPTION	REPET		
EFF. DATE	BULLETIN	DESCRIPTION	INSPEC YES	NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
96-18-16 39-9742 F1997-010R1 EASA 12/09/96	72-728 72-338 72-476 72-695	To prevent low cycle fatigue of the LPTR stub shaft and conical support. Applies to engine models: 2, 2A, 2B, 3, 3B, 3C, 5.	1115	X	NA3 to Conical Support P/N 305-056-116-0 S/N DC548244 NA3 to Stub Shaft P/N 301-330-626-0 S/N BB698440
96-25-11 39-9854 F1989-181R3 01/29/97	72-543 R4 72-737 72-71 72-1203 R10	To prevent fan blade failure that may result in complete loss of power. Applies to engine models: 3B2, 3C1.		Х	NA3 to Fan blade P/N 1590M21P01, 1663M24P01, & 1663M24P02 installed.
97-08-01 39-9989 F1994-195 EASA 06/23/97		To prevent a low cycle fatigue failure of the fan disk, which could result in an engine failure. Applies to engine models: 3, 3B, 3C		Х	NA3 to Fan Disk P/N 335-014-511-0 S/N BB687415 installed
T97-25-51 12/4/97		Superseded by AD 98-10-11.			Superseded
98-07-02 39-10402 F1998-080R1 EASA 03/30/98	72-823 72-825 72-1355R1 72-856	To prevent rubs between the outer cone of the #3 bearing rear stationary air/oil seal and the HPCR Stg 1-2 s0001. Applies to engine models: 2, 3, 3B, 3C.		Х	NA4 to 1-2 Spool P/N 1589M66G02 S/N GWN0GFA2 installed. NA2 to ESN 858996.
98-10-11 39-10585 F1997-327 EASA 06/03/98	72-863R1 72-865 72-867 72-873R1 72-523R1 72-211R1 72-350R1	To prevent inflight engine shutdowns due to an AGB starter gear shaft, TGB input bevel gear, TGB output bevel gear, AGB gear shaft duster spur assy or AGB intermediate gear assy failure. Applies to engine models: 3, 3B, 3C, 5, 5B, 5C.		Х	NA2 to ESN 858996.
98-12-32 39-10523 F1998-096 EASA 07/20/98	72-817R1 72-419R2 72-561R1 72-843R1	To prevent the potential for an uncontained failure of the HPTR disk. Applies to engine models: 2, 2A, 2B, 3, 3B, 3C.		Х	NA3 to HPT Disk P/N 1475M29P03 S/N GWN0G8LG installed.
T98-18-51		Superseded by AD 98-21-23.			Superseded



A.D. NUMBER EFF. DATE	PWA SERVICE BULLETIN	DESCRIPTION	REPET INSPEC YES		COMPLIANCE, STATUS, NEXT INSPECTION PART NUMBERS / SERIAL NUMBERS INST.
98-19-10 39-10752 F1998-198R1 EASA 09/28/98	72-877R1	To prevent an AGB starter gear shaft failure, which can result in an inflight Eng shutdown, and on a/c with two affected Eng installed, possible dual infligt shutdown. Applies to engine models: 3, 3B, 3C.		Х	NA2 to ESN 858996.
99-08-16		Superseded by AD 2000-12-01.			Superseded
2000-05-22 39-11632 F2000-018 EASA 05/02/99	72-922	Perform an ECI for cracks in the bolt holes of the HPTR front rotating air seals, P/N 1282M72P03, and replace, if necessary, with serviceable parts. Applies to engine models: 2, 2A, 2B, 3, 3B, 3C, 5, 5A, 5B, 5C		X	NA to P/N 1282M72P05 S/N XAEJ5674 installed.
2000-12-01		Superseded by AD 2002-13-03.			Superseded
2000-15-01 39-11830 F1999-245R1 EASA 10/02/2000	73-110R2 73-J055R1 73-076R1 73-1126R1 73-136R2 73-056R2 73-073R2	To prevent fuel leakage from between the fuel pump filter and gear housing perform visual inspections of the fuel pump filter cover helicon inserts & bolts for damage. Applies to engine models: 2, 2A, 2B, 3, 3B, 3C, 5, 5A, 5B, 5C		x	PCW. TERMINATED. Fuel Pump P/N 301-779-007-0 (708600-7) S/N 13396 verified & re- installed TSV.
2001-04-06 39-12124 F1997-298R4 EASA 04/04/2001	72-854R1 or 72-854R2	To prevent fan disk failure, perform a local ultrasonic Inspection for cracks in the disk. Applies to engine models: 3, 3B, 3C.		Х	NA3 to Fan blades with 37 deg P/N's 1590M21P01, 1663M24P01, & 1663M24P02 installed. NA3 to Damper Assemblies P/N 335-105-305-0 & 335-105- 306-0 installed TSV.
2001-08-51	L CONTRACTOR	Superseded by AD 2001-09-17.			Superseded
2001-11-05 39-12246 F2001-240 EASA 06/11/2001		To prevent bearing failure, replace #4 bearing that has a S/N listed in table 1 of AD and replace with a bearing S/N not on list, within 2000 hours TIS after effective date of AD. Applies to engine models: 2, 25, 3, 3B, 5B, 5C, 7B.		X	NA3 to Bearing P/N 335-355-720-0 S/N DC151447-N installed TSV.
2002-13-03 39-12790 F2002-390 EASA 08/01/2002		To prevent critical life limited rotating engine part failure, within the next 30 days after effective date of AD, revise Airworthiness Limitations Section of Engine Shop Manual. Applies to engine models: 2, 2A, 2B, 3, 3B , 3C, 5, 5B, 5C, 7B.		Х	<u>CW</u> TSV on Fan Shaft P/N 335-006-414-0 S/N DA703777.

W/O CFM1052 - ESN 858996

Form: TMC-ENG-07CFM56 R0 07/01/2018

REVIEWED BY:

_DATE: March 2ND, 2021

Page 3 of 5



A.D. NUMBER EFF. DATE	PWA SERVICE BULLETIN	DESCRIPTION	Contract 21 States in the lot of the	TITIVE ECTION NO	COMPLIANCE, STATUS, NEXT INSPECTION PART NUMBERS / SERIAL NUMBERS INST.
2003-02-04		Superseded by AD 2007-03-15.			Superseded
2004-10-13 39-13643 F2004-095 EASA 06/24/2004	73-0104R3 73-0120R5 73-0126R4	To prevent main fuel pump bearing failure resulting in fuel nozzle clogging and LPT case burn through, remove from service main fuel pumps by P/N installed. Next S/V or pump repl, but no later than Jan 1, 2007. Applies to engine models: 2C, 3, 5		X	NA3 to Fuel Pump P/N 301-779-007-0 (708600-7) S/N 13396 verified & re- installed TSV.
2006-26-01 39-14859 01/03/2007		There have been 12 reports of failed fuel filters. Therefore, replace fuel filter. See AD for engine Model replacement schedule. Applies to engine models: 2, 3, 5, 7B.		X	<u>CW</u> TSV.
2009-01-01		Superseded by AD 2010-09-14.			Superseded
2009-11-02 39-15912 06/23/2009		AD issued to remove from service HPC 4-9 spools by P/N and S/N listed in table 1 of AD before accum. 8,900 CSN. Applies to engine models: 2, 3, 5A, 5B, 5C, 7B.		X	NA4 to 4-9 Spool P/N 1588M89G03 S/N GWN0C7TE installed TSV.
2010-12-03 39-13624 EASA 2009-0036 07/13/2010	72-1067	Perform an on-wing or in shop inspection of the fan blade and damper for wear every 3,000 CSLI. Applies to engine models: 3 & 3B.		X	NA3 to Fan blades with 37 deg P/N's 1590M21P01, 1663M24P01, & 1663M24P02 installed TSV.
EASA 2012-0209		Superseded by AD 2020-02-61.			Superseded
2013-02-02		Superseded by AD 2016-14-10.			Superseded
2013-26-01 39-17710 02/03/2014		Perform inspection to verify re-installation of the handcranking pad cover to prevent loss of engine oil while in flight.	Х		<u>CW</u> TSV. TERMINATED. AGB P/N 335-300-112-0 S/N WB7980 installed TSV.
2015-18-04 39-18262 EASA 2015-0133 10/20/2015	72-0964 R1	Report of an un-commanded in-flight shutdown on a CFM56- 7B engine following rupture of the 73-tooth gearshaft located in the engine AGB		X	NA1

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A.D. NUMBER EFF. DATE	PWA SERVICE BULLETIN	DESCRIPTION	REPETITIVE INSPECTION YES NO		COMPLIANCE, STATUS, NEXT INSPECTION PART NUMBERS / SERIAL NUMBERS INST.
2016-14-10 39-18591 11/21/2005		Removed HPT disk P/N 880026 with S/N's GLKBAA9307, GLKBAA9335, GLKBAA9404, GLKBAA9407 and GLKBAA9409 from service before the cycles reflecting on AD 2013-02-02 Applies to engine models: 3, 3B and 3C Series		х	NA3 to HPT Disk P/N 1475M29P03 S/N GWN0G8LG Verified & re-installed.
2017-14-08 R1 39-14791 11/2/2006	72-1169 R1	Turbofan engines with steel high-pressure compressor (HPC) stator case, P/Ns: 1499M30G01,1499M30G02, 1499M30G03 or 1676M88G01, installed. Applies to engine models: 3, 3B, and 3C	Х		<u>CW</u> TSV. TERMINATED. Installed Case 1499M30G02 S/N MA828 marked RP031 TSV.
EASA 2020-0261 12/11/2020	72-1129	Inspect AGB Cranking Pad torque at every shop visit. TERMINATING ACTION (not later than 12-30/2026) - Replace AGB 335-300-103-0, 335-300-105-0, 335-300- 106-0, 335-300-107-0, 335-300-108-0, 335-300-109-0, and 335-300-110-0 with AGB P/N 335-300-112-0		Х	<u>CW</u> TSV. TERMINATED. AGB P/N 335-300-112-0 S/N WB7980 installed TSV.

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