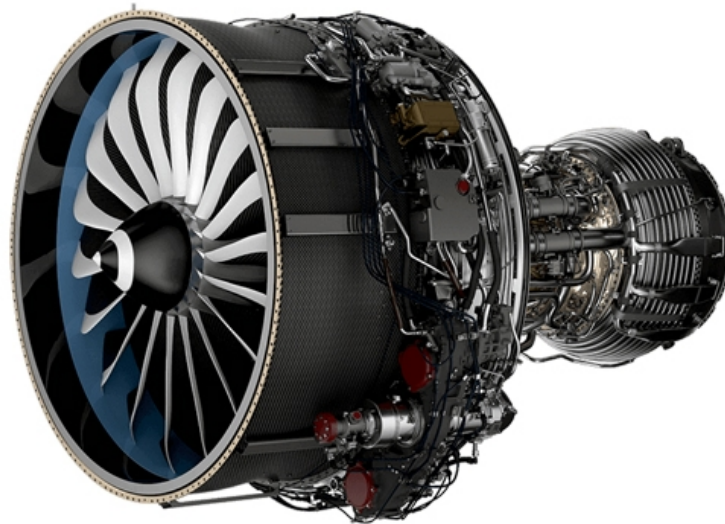


Engine Mini Pack CFM56-3C1 ESN 725796





Engine Summary Information



Engine Model :
CFM56-3C1

Serial Number :
725796

Total Time Since New :
49935

Total Cycles Since New:
41142

Time Since Shop Visit :
0

Cycles Since Shop Visit :
0



LLP Sheet



Aircraft Type: B737-400 TSLSV: 0
 Aircraft Registration: Ex. PK-LIT/MSN 24512 CSLSV: 0
 Engine Type: CFM56-3C1 M.R.O.: TMC Engine Center, Inc.
 Engine Serial Number: 725796
 Engine Installed Date: 2011 DEC 21
 Engine Position: #2 (left hand)
 Last Perf. Restoration: 2020 07 20
 Reason of Removal: D/T Borescope finding

Operational Thrust: 23500 LBS
 Current Engine Hours: 49335
 Current Engine Cycles: 41142
 Status Date: 2020 07 20
 Last Shop Visit: 2020 07 20
 Removed Date: 2011 NOV 10

Item NO	Description	Part Number	Serial Number	Total Hours	Total Cycle	Total Cycles Category				Life Limit (cycles) Category				Remaining Cycles Category				Remark
						3B1	3B2	3C1	2C1	3B1	3B2	3C1	2C1	3B1	3B2	3C1	2C1	
1	Booster spool	335-009-306-0	DB083763	-	19034	2434	13497	3103	0	30000	30000	30000	-	10966	10966	10966	-	ORIGINAL
2	Fan Disk	335-014-511-0	BB374950	-	19034	2434	13497	3103	0	30000	24900	20100	-	6673	5538	4471	-	ORIGINAL
3	Fan Shaft	335-006-414-0	DB469599	-	19034	2434	13497	3103	19759	30000	30000	30000	3000	10956	10966	10966	-	ORIGINAL
4	HPC Front Shaft	1275M37P02	GWNSA483	-	15763	12013	3750	0	0	20000	20000	20000	-	4237	4237	4237	-	EX-720236-3B1
5	HPC 1-2 Spool	1589M66G02	GWN05G87	-	14889	1149	12947	793	0	20000	20000	20000	-	5111	5111	5111	-	ORIGINAL
6	HPC 3 Disk	1590M59P01	GWN055R5	-	14889	1149	12947	793	0	20000	20000	20000	-	5111	5111	5111	-	ORIGINAL
7	HPC 4-9 Spool	1590M29G01	GWN03308	-	14795	9896	4899	0	0	20000	20000	15800	-	5205	5205	4112	-	EX-722178-3B2
8	HPC Rear AirSeal	1319M25P02	GFF5EH1K	-	4853	1103	3750	0	0	20000	18000	15000	-	14730	13257	11048	-	NEW
9	HPT Front Shaft	1385M90P04	XAEL9058	-	4853	1103	3750	0	0	20000	17300	17000	-	14562	12596	12377	-	NEW
10	HPT Front AirSeal	1282M72P05	GWN01AA0	-	13332	2902	10430	0	0	20000	15800	15100	-	3895	3077	2941	-	EX-722178-3B2
11	HPT Disk	1475M29P02	GWN080FN	-	13801	6082	7719	0	0	20000	18500	16600	-	5573	5155	4626	-	EX-726118-3B2
12	HPT Rear Shaft	1864M91P02	TMT28902	-	4853	1103	3750	0	0	20000	20000	20000	-	15147	15147	15147	-	NEW
13	LPT 1 Disk	301-331-126-0	BB353193	-	19034	2434	13497	3103	0	25000	25000	25000	-	5966	5966	5966	-	ORIGINAL
14	LPT 2 Disk	301-331-227-0	BB345171	-	19034	2434	13497	3103	0	25000	25000	25000	-	5966	5966	5966	-	ORIGINAL
15	LPT 3 Disk	301-331-322-0	BB376650	-	19034	2434	13497	3103	0	25000	25000	25000	-	5966	5966	5966	-	ORIGINAL
16	LPT 4 Disk	301-331-427-0	J219606	-	21048	3218	17830	0	0	25000	25000	25000	-	3952	3952	3952	-	EX-722178-3B2
17	LPT Conical Support	305-056-116-0	R032143	-	21048	3218	17830	0	0	25000	25000	25000	-	3952	3952	3952	-	EX-722178-3B2
18	LPT Shaft	301-330-067-0	LA077042	-	19034	2434	13497	3103	0	30000	30000	30000	-	10966	10966	10966	-	ORIGINAL
19	LPT Stub Shaft	301-330-626-0	DA052580	-	21048	3218	17830	0	0	25000	25000	25000	-	3952	3952	3952	-	EX-722178-3B2
														Limiter				
														3895	3077	2941		

Authorized Representative

Charles Khoury _____

FAA Repair Station No. Z5LR447Y
 EASA Approval No. 145.5978



Engine workscope

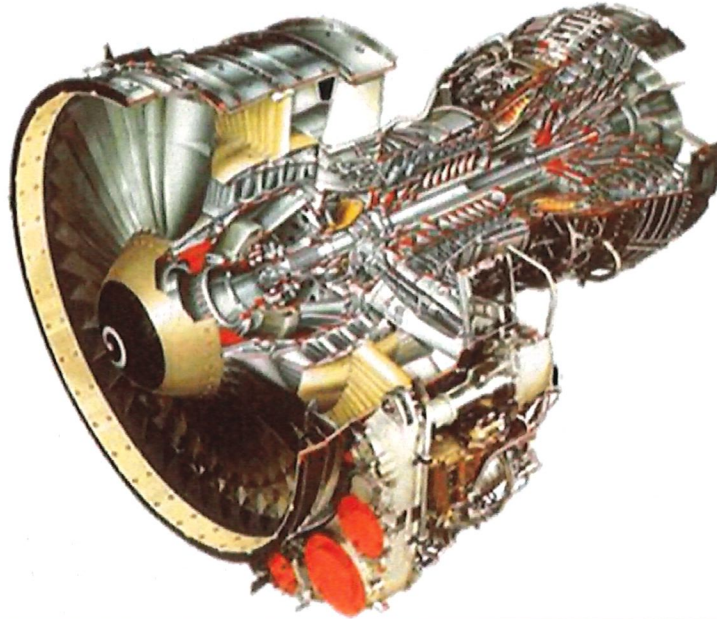
TMC ENGINE CENTER. ENGINE REPORT



MIAMI JULY, 29 of 2020

SECCION 1: POWERPLANT ENGINEERING TECHNICAL ASSESSMENT.

Removal Reason:	BOROSCOPE FINDING. ENGINE IS OUT OF PRESERVATION.
Work Assigned:	ENGINE OUT PRESERVATION.REMOVE 1 THRU 5 MAIN LINE BEARINGS. IAW SP-10



TECHNICAL ASSESSMENT

ATA	Section/ Module	Initial level	Actual Level	Comments
72-20	FAN FRAME	MPW	MPW	Performer Module Performance Restoration. & LPC System balancing.
72-21	FAN & BOOSTER	MMW	MMW	Visually Inspect per ESM/Modular inspection 72-00-01 Insp. / Check.
72-22	No 1 and No 2	MPW	MPW	REMOVE & DISASSEMBLE to access No.1 & No.2 bearings (due to engine out-of-preservation). Make them Serviceable & re-install them.
72-23	Fan Frame Assy	MMW	MMW	Visually Inspect per ESM/Modular inspection 72-00-01 Insp. / Check Restore surface on Front Cone IAW 72-21-05 Restore FAN OGV surface finish.
72-30	HPC Section.	MPW	MPW	
72-31	Comp. Rotor Assy	MPW	MPW	Performer Top Case repair, to replace Blades of STG 7 and STG 8, and smooth flow pass of each blade.
72-32	Comp Stator front	MPW	MPW	Inspect the airfoils for FOD, crack & distortion Honeycomb seal for serviceability
72-33	Comp Stator Rear.	MPW	MPW	Inspect the airfoils for FOD, crack & distortion Honeycomb seal for serviceability

TMC ENGINE CENTER. ENGINE REPORT



MIAMI JULY, 29 of 2020

72-40	Combustion Section	MMW	MMW	Visually Inspect per ESM/Modular inspection 72-00-01 Insp. / Check
72-41	Comb Case	MMW	MMW	Remove Fuel Nozzle by Bench Check.
72-42	Comb Chamber	MMW	MMW	Inspect all accessed parts for serviceability
72-50	Turbine Section	MPW	MPW	Visually Inspect per ESM/Modular inspection 72-00-01 Insp. / Check
72-51	HPT Nozzle	MPW	MPW	Visually Inspect per ESM/Modular inspection 72-00-01 Insp. / Check
72-52	HPT Rotor	MPW	MPW	Inspect all accessed parts for serviceability
72-53	HPT Shroud/Stage 1 LPT Nozzle	MPW	MPW	REMOVE to access HPT Module ONLY. Install OHC shrouds. Match grind to J05 Clearance. Inspect all accessed parts for serviceability.
72-54	LPT Rotor/Stator	MMW	MMW	Not exposed this shop visit.
72-55	LPT Shaft	MMW	MMW	Not exposed this shop visit.
72-56	Turbine Frame	MMW	MMW	Inspect all accessed parts for serviceability
72-60	Acc Driver Section	MMW	MMW	
72-61	IGB Module	MPW	MPW	REMOVE & DISASSEMBLE the No.3 bearing (due to engine out-of preservation). Make it Serviceable & re-install it.
72-62	TGB Module	MMW	MMW	Remove partially disassemble to inspect bearings.
72-63	AGB Module	MFW	MFW	REPLACE AGB WITH P/N 335-300-112-0 Post SB 72-1129R2

OTHER

Inspections and Bench Test:

- Lube Unit
- VSV Actuators
- HPTCC valve
- Fuel Pump
- VBV gear motor
- Fuel nozzles
- MEC

Additional Requirements

- AD 2017-14-08 Complied in this shop visit.
- SB 73-0120R5 (AD 2004-10-13) conversion from bronze to aluminum bearing

IPC REF.	DESCRIPTION	P/N	S/N	DEFECT DESCRIPTION	REP	SCR
72-00-23	FWD ACOUSTIC PANEL	335-011-305-0	N/A	DAMAGED PROTECTIVE COATING ,CRACKS		
72-00-23	OGV'S	335-104-707-0	N/A	DAMAGED SURFACE PROTECTION	28	
72-00-23	AFT ACOUSTICAL PANEL	335-063416-0	N/A	DLSBONDING I REMOVE AND INSPECT FOR SERVICEABILITY	1	
72-23-00-20	SKIN, FILLET	335-012-102-0	N/A	REJECTED DUE TO TEARS		9
72-23-00-26	NUT, ANCHOR TWO LUG FLTG	649-302-102-0	N/A	LOOSE		2
72-23-07	FAN DUCT PANEL	305-082-812-0 /335-031-502-0 /335-034-101-0 / 335-031-201-0	N/A	REJECTED DUE TO CRACK	4	
AMM 72-31-03	ABRADABLE MATERIAL	-	-	FLAKING OF THE ABRADABLE MATERIAL	X	
72-00-21	ONT SFRPIINER	335-106-402-0	RR03232	MISSING COATING	1	
72-00-21	FAN BLADES	1590M21P01	SNE51809 / MAA84477	DENT BEYOND ESM LIMIT		2
72-00-21	FAN BLADES	1663M24P01	MAA24034 MAA62846	DENT BEYOND ESM LIMIT		2
72-00-21	FAN BLADES	1590M21P01	SNE4896I , SNE48932, MAAA0521, MAA84290	DENT BEYOND ESM LIMIT		4
72-21-16	DAMPER ASSEMBLY	335.105-305-0	N/A	MISSING SHIELD		
75-21-10-01	VALVE, TURBINE CLEARANCE			LOSSE BUTTERFLY VALVE SHAFT	1	
74-00-00-02	IGNITER SPARK MAIN	1374M12P10	FN156	FOUND 1 EA FIRING TIP EXCESSIVE DAMAGE (BROKEN)		
72-55-0001	NUT, RETAINING NO. 5 MG	301-547-907	N/A	REPLACED THE SILVER COATING	1	
72-53-00-80	SHROUD / LPT NOZZLE	1499M62G09	-	FOUND BURNED, CRACKED AND MISSING MATERIAL	22	
72-53-00-80	SHROUD / LPT NOZZLE	149911162610	-	FOUND BURNED, CRACKED AND MISSING MATERIAL	24	
72-53-00-80	LPT NOZZLE SEGMENT	305-350-050-0		NEED REPLACE DUE TO CRACK AND MISSING MATERIAL.	6	
72-51-04	HPT AFT OUTER SEAL SUPPORT	1498M95G02	FCP55MCI	AXIAL OR RADIAL CRACK' AREA A	1	
72-00-52	HPT ROTOR MODULE	REF 72-00-52	52X25796	DENT BEYOND ESM CFM56 LIMIT		3
72-56-00	SEAL GASKET	305-483-202-0	N/A	REPLACE OF 3 EA SEAL GAKET	3	
72-63-00-01	GEARBOX ASSY	335-300-112-0		REPLACE BY CUSTOMER REQUEST	1	
72-61-02	HORIZONTAL BEVEL GEAR	9517M50P03	SAP826330	SCRAPED DUE TO NICKS OR HIGHT METAL		1
72-00-62	TRANSFER GEARBOX MODULE	335-300-011-0	VB3345	REPLACE SEAL RING P/N 335-305-900-0	1	
72,61-03	RADIAL BEVEL GEAR	9972M31G03	SAP84860	OIL SEAL MISSING MATERIAL	1	
72-61-07	NO. 3 BRG PULLER RING	9972M46G05	N/A	FOUND MISSING FIBER WASHER	1	
72-61-00-01	BRG, ROLLER CILINDRICAL	9972M34P09	FBGD8979	FOUND PITTING ON ROLLER BRG		1
72-61-00-01	BRG, ROLLER CILINDRICAL	9972M33P07	FBGD9870	FOUND PITTING ON ROLLER BRG		1
72-61-00-01	BRG, BALL THRUST	9541M89P01	FBCD4009	FOUND PITTING ON ROLLER BRG		1
77-21-24	T495 THERMOCOUPLE WIRING HARNESS	301-785-101-0	16474	REJECTED DUE TO TUBE SURFACE SCRATCHES		1
78-11-00	FAIRING			DENTS / DAMAGED I REPLACE		1