ENGINE PERTINENT RECORDS PACKAGE FOR WO# 2022-605 ESN: 83 CFM56-3C1

TECHNICAL DOCUMENTATION

TECHNICAL DOCUMENTATION FOR

THE REPAIR OF

ENGINE MODEL: CFM56-3C1

SERIAL NO.:

THIS ENGINE HAS BEEN REPAIRED

ENGINE SUMMARY INFORMATION

ENGINE SUMMARY DATA:

Make:	CFM International
Model:	CFM56-3C1
Serial Number:	83
Total Time since New:	32,702.51
Total Cycles since New:	29,723
Cat A First Cycle Limiter:	HPC 4-9 Spool
Cat A Second Cycle Limiter:	HPT FR Shaft
Cat B First Cycle Limiter:	HPT FR Shaft
Cat B Second Cycle Limiter:	HPT FR Airseal
Cat C First Cycle Limiter:	HPC 4-9 Spool
Cat C Second Cycle Limiter:	HPT FR Shaft

F.A.A

FORM

337

U.S. Department of Transporation
Federal Aviation Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

OMB No. 2120-0020
Exp: 04/30/2023

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark	Serial No.	
	Make	Model	Series
2. Owner	Name *(As shown on registration certificate)*	Address *(As shown on registration certificate)* Address City State Zip Country	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
☐	☐	AIRFRAME		*(As described in item 1 above)*	
☒	☐	POWERPLANT	CFM International	CFM56-3C1	
☐	☐	PROPELLER			
☐	☐	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

B. Kind of Agency

☐	U.S. Certificated Mechanic	☐	Manufacturer
☐	Foreign Certificated Mechanic	C. Certificate No.	
☒	Certificated Repair Station	**J9GR114O Limited Powerplant, Airframe, & Accessories**	
☐	Certificated Maintenance Organization		

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B ☐	Signature/Date of Authorized Individual

7. Approval for return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	☐	FAA Flt. Standards Inspector	☐	Manufacturer	☐	Maintenance Organization	☐ Persons Approved by Canadian Department of Transport
	☐	FAA Designee	☒	Repair Station	☐	Inspection Authorization	Other *(Specify)*

Certificate or Designation No.

FAA Form 337 (10-06)

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

	Nationality and Registration Mark	Date
Work Order: 2022-605 **Model: CFM56-3C1**		

E.T.T: 32,702.51 **E.T.C: 29,723**

Subject engine was received with limited repair instructions to replace LLPs.

Fan Major Module (ATA 72-21-00, 72-22-00, 72-23-00)

1. Fan & Booster Assembly was replaced. Unit was disassembled, cleaned, inspected, repaired, assembled and balanced.
2. Installed (38ea) an INSP set of 37° midspan shroud Fan Blades.
3. Accomplished Fan Blade lubrication at this shop visit.
4. N°1 & N°2 Bearing Support Module was replaced. Unit was disassembled, cleaned, inspected, assembled and installed.
1. Fan Frame Module was cleaned, inspected, repaired and assembled.
2. Installed INSP Panels/Skin Fillets, an OVH set of Ballscrew Actuators, a NEW N°3 Bearing FWD Stationary Oil Seal & OVH N°3 Aft Stationary Seal.
3. All other exposed areas/components were inspected per CFM56-3 ESM and their corresponding Adjacent Area Inspections.

Core Major Module (ATA 72-31-00, 72-32-00, 72-33-00, 72-41-00, 72-42-00, 72-51-00, 72-52-00 & 72-53-00)

1. HPC Rotor Module was replaced. Unit was disassembled, cleaned, inspected, repaired, assembled and balanced.
2. Installed INSP HPC LLPs & ground Blade tips.
3. HPC FWD Stator Case Module was cleaned, inspected & assembled with OVH/Ground Stg 1-3 Seals.
4. HPC RR Stator Case Module was cleaned & modular inspected.
5. Combustor Assembly Module was disassembled, cleaned, inspected, and assembled.
6. Installed (20ea) a set of bench checked of Fuel Nozzles, an OVH/Ground HPT Inner Stationary (CDP) Seal & an OVH Combustion Chamber Assy.
7. HPT Nozzle Module replaced. Unit was disassembled, cleaned, inspected and assembled.
8. Installed an OVH/Ground HPT Outer Stationary Seal.
9. HPT Rotor Module was replaced. Unit was disassembled, cleaned, inspected, repaired, assembled and balanced.
10. Installed INSP HPT LLPs & INSP HPT Blades.
11. MOD12 Module was disassembled, cleaned, inspected, repaired and assembled.
12. Installed INSP LPT NGV Assy, OVH/Ground HPT Shrouds per TASK 72-53-00-440-001-0. HPT Shrouds have DER repairs.
13. All other exposed areas/components were inspected per CFM56-3 ESM and their corresponding Adjacent Area Inspections.

Low Pressure Turbine Major Module (ATA 72-54-00, 72-55-00, 72-56-00)

1. LPT Major Module was replaced. LPT Rotor Module was disassembled, cleaned, inspected, repaired, assembled and installed.
2. LPT Shaft Module was disassembled cleaned, inspected, repaired, assembled and installed.
3. LPT Frame was cleaned, modular inspected and installed.
4. LPT Major Module was assembled, balanced and installed.
5. All other exposed areas/components were inspected per CFM56-3 ESM and their corresponding Adjacent Area Inspections.

Gearboxes (ATA 72-61-00, 72-62-00 & 72-63-00)

1. IGB & TGB were disassembled, cleaned, inspected, assembled and pressure checked.
2. AGB was disassembled, cleaned, inspected, modified, assembled and pressure checked.

Installed Bench Checked: MEC, Fuel Pump, TCC Timer, CIT & FIT Sensor

Installed OVH: TCC Valve, VSV Actuators & Bleed Valve Gear Motor

All pertinent **Airworthiness Directives** were reviewed and were found to be current at this visit. The following ones were accomplished this visit.

1. AD 2002-13-03	(Inspection of Fan Disk, Fan Shaft, HPC FR Shaft, HPC Stg 1-2 Spool, HPC Stg 3 Disk, HPC Stg 4-9 Spool, HPC RR (CDP) Air Seal, HPT Disk, HPT FR Rotating Air Seal, LPT Stg 2 Disk, LPT Stg 3 Disk, LPT Stg 4 Disk, LPT Conical Support, LPT Shaft & LPT Stub Shaft)
2. AD 2017-14-08	(Performed Pull Force Check Inspection of HPC Stator Case)
3. AD 2022-02-03	(Installed AGB P/N 335-300-112-0 S/N WB9060)

The following **Service Bulletins** were embodied at this visit:

1.	SB 72-1169R3	(Performed Pull Force Check Inspection of HPC Stator Case)
2.	SB 72-1129R7	(Installed AGB P/N 335-300-112-0 S/N WB9060)

Accomplished Test N°10 for 3C1 at 23.5K, post-test borescope inspection, and 30-365 days engine preservation in accordance with Boeing B737-300/400/500 AMM Revision 97 dated March 25, 2023 and FAA DER 20-JTC-001.

Subject engine was repaired, tested and found to be serviceable in accordance with CFM International ESM P/N CFMI-TP-SM.5 Revision 80 dated December 15, 2022. All pertinent details of the above are on file at this Repair Station under W.O.# 2022-605.

N/A☐ Additional Sheet Are Attached

F.A.A

FORM

8130-3

1. Approving Civil Aviation Authority/Country: **FAA/UNITED STATES**	2. AUTHORIZED RELEASE CERTIFICATE FAA FORM 8130-3, AIRWORTHINESS APPROVAL TAG	3. Form Tracking Number. 2022-605
		5. Work Order, Contract, or Invoice Number

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial/Batch Number:	11. Status/Work:
1.	TURBOFAN ENGINE	CFM56-3C1	1EA		REPAIRED

12. REMARKS

The subject engine was disassembled, cleaned, inspected, repaired, and assembled in accordance with CFM International ESM P/N CFMI-TP-SM.5 Revision 80 dated December 15, 2022.

Accomplished Test N°10 for 3C1 at 23.5K, post-test borescope inspection, and 30-365 days engine preservation in accordance with Boeing B737-300/400/500 AMM Revision 97 dated March 25, 2023 and FAA DER 20-JTC-001.

All **Airworthiness Directives** were reviewed and found to be current. The following A.D.'s were incorporated at this shop visit:

2002-13-03, (Fan Disk, Fan Shaft, HPC FR Shaft, HPC Stg 1-2 Spool, HPC Stg 3 Disk, HPC Stg 4-9 Spool, HPC RR (CDP) Air Seal, HPT Disk, HPT FR Rotating Air Seal, LPT Stg 2 Disk, LPT Stg 3 Disk, LPT Stg 4 Disk, LPT Conical Support, LPT Shaft & LPT Stub Shaft) 2017-14-08 and 2022-02-03.

The following **Service Bulletins** were embodied at this shop visit:

72-1129R7 & 72-1169R3.

Engine Total Time: 32,702.51 Engine Total Cycles: 29,723

(Time and Cycles supplied by customer) (Refer to form F.A.A 337 for details)

All pertinent details of the work performed are on file at Jet Engine Technology Corp. under work order # 2022-605.

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 EASA.145.6634.

13a. Certifies the item 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 with Title 14, Code of Federal Regulations, part 43 and in respect to the work, the items are approved for return to service.

13b. Authorized Signature:	13c. Approval Authorization No:	14b. Authorized Si	14c. Approval/Certificate No:
N/A	N/A		J9GR114O
13d. Name (Type or Printed):	13e. Date (m/d/y):	1	14e. Date (dd/mmm/yyyy):
N/A	N/A		16-MAY-2023

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 works 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/components/assemblies 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 regulation by the user/installer before the aircraft may be flown.

L.L.P

STATUS

As Built Disk Sheet

Work Order: 2022-605	Model: CFM56-3C1	Engine T.T: 32,702.51
Date: MAY-16-2023	E.S.N	Engine T.C:29,723

All data for the disks that were NOT changed has been provided by the Customer. All documentation for the disks that HAVE been changed are on file at Jet Engine Technology Corp. under this work order.

Stage	Part Number	Serial Number	Total Hours	Total Cycles	Cycle Limit - Cat.			Cycle Operation - Cat.			Cycle Remaining - Cat.		
					A	B	C	A	B	C	A	B	C
Fan & Booster													
Fan Disk*	335-014-511-0	JN00586	34,619	23,317	30,000	24,900	20,100	23,317	0	0	6,683	5,546	4,477
Booster Spool*	335-009-306-0	JN00729	40,426	25,717	30,000	30,000	30,000	8,537	17,180	0	4,283	4,283	4,283
Fan Shaft*	335-006-414-0	DC056845	N/A	13,668	30,000	30,000	30,000	10,735	2,933	0	16,332	16,332	16,332
High Pressure Compressor													
HPC Front Shaft	1275M37P02	GWN00C9L	22,983	16,707	20,000	20,000	20,000	16,707	0	0	3,293	3,293	3,293
Stage 1 to 2 Spool*	1589M66G02	GWN058GC	22,665	15,828	20,000	20,000	20,000	0	8,414	7,414	4,172	4,172	4,172
Stage 3 Disk*	1590M59P01	GWN056H4	22,665	15,828	20,000	20,000	20,000	0	8,414	7,414	4,172	4,172	4,172
Stage 4 to 9 Spool*	1588M89G03	GWN06GCE	26,195	16,924	20,000	20,000	15,800	12,731	4,193	0	3,076	3,076	2,430
HPC Rear Air Seal*	1319M25P02	GFF5C3JK	18,049	14,928	20,000	18,000	15,000	2,778	12,150	0	3,722	3,349	2,791
High Pressure Turbine													
HPT Front Shaft*	1385M90P04	XAE64926	18,049	14,928	20,000	17,300	17,000	2,778	12,150	0	3,175	2,747	2,699
HPT Front Air Seal*	1282M72P05	XAEJ5199	18,860	12,667	20,000	15,800	15,100	0	7,508	5,159	3,663	2,893	2,765
HPT Disk*^	1475M29P02	GWNGF365	18,602	16,289	20,000	18,500	16,600	15,679	0	0	3,586	3,317	2,976
HPT Rear Shaft*	1864M91P02	TMTTH213	26,195	16,924	20,000	20,000	20,000	12,731	4,193	0	3,076	3,076	3,076
Low Pressure Turbine													
LPT Stg 1 Disk*	301-331-126-0	BC488904	N/A	20,723	25,000	25,000	25,000	15,509	5,214	0	4,277	4,277	4,277
LPT Stg 2 Disk*^	301-331-221-0	JN80092	23,933	11,626	20,000	16,200	13,900	0	0	0	8,374	6,782	5,819
LPT Stg 3 Disk*	301-331-322-0	J174998	33,027	20,728	25,000	25,000	25,000	20,728	0	0	4,272	4,272	4,272
LPT Stg 4 Disk*	301-331-427-0	DA480921	25,348	15,601	25,000	25,000	25,000	15,601	0	0	9,399	9,399	9,399
Conical Support*	305-056-116-0	DA702724	32,926	19,458	25,000	25,000	25,000	3,459	15,999	0	5,542	5,542	5,542
LPT Shaft*	301-330-067-0	FR00125	36,183	25,429	30,000	30,000	30,000	25,429	0	0	4,571	4,571	4,571
LPT Stub Shaft*	301-330-626-0	BB927126	27,296	20,724	25,000	25,000	25,000	0	12,947	7,777	4,276	4,276	4,276

*Disk or Shaft was replaced at this shop visit

^ LPT STG 2 DISK OPERATED FOR 11,626 CYC WITH A 20,000 CYC LIMITER.

^ HPT DISK OPERATED FOR 610 CYC WITH A 16,600 CYC LIMITER.

A.D

STATUS

WORK ORDER: 2022-605

ENGINE MODEL: CFM56-3C1 ENGINE S/N: T.T: 32,702.51 T.C: 29,723

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NA2 = Not Applicable Due to Engine Serial Number
NA3 = Not Applicable Due to Part Numbers
NA4 = Not Applicable Due to Part Serial Numbers

A.D. NUMBER EFF. DATE	CFM56 SERVICE BULLETIN	DESCRIPTION	REPETITIVE INSPECTION YES	REPETITIVE INSPECTION NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
86-08-05R1 07-Jul-1986 EASA AD F-1986-066R1	3/72-205R5	Inspect oil distributor P/N's 335-305-800-0 and spirolock P/N 649-363-137-0 in accordance with CFM56-3 SB 72-205. Follow the re-inspection criteria in the AD. Models: CFM56-3, 3B.		X	**NA3:** TGB P/N 335-300-011-0 S/N VB3765 installed.
89-13-51 Jun 14, 1989		**Superseded by 96-25-11**			**Superseded by 96-25-11**
89-17-04		**Superseded by 89-23-06R1**			**Superseded by 89-23-06R1**
89-23-06R1 Nov 11, 1989 EASA AD F-1989-181R3	2/72-620R4 3/72-530R3 5/72-A118R1	Removed from service N°3 Bearing P/N's 9732M10P18 and 1362M76P02. For CFM56-2 and CFM56-3 series engines equipped with N°3 Bearings, P/N's 9732M10P10; 9732M10P17; or 9732M10P12 (S/N series FAFDxxxx or FAFExxxx); inspect the forward sump magnetic chip detector (MCD) IAW and CFM56-2 SB 72-620 and CFM56-3 SB 72-530. For CFM56-5 series engine equipped with N°3 Bearing P/N's 9542M60P01; inspect the forward sump magnetic chip detector (MCD) IAW and CFM56-5 ASB 72-A118 Remove from service, prior to further flight, engines which exhibit MCD metallic debris defined as not serviceable IAW service bulletin. Bearing inspections previously accomplished IAW AD 89-17-04 or AD 89-23-06 satisfy the corresponding requirements of this AD. Models: All CFM56-2, CFM56-3, and CFM56-5 engine series.		X	**NA3:** N°3 Bearing P/N 1461M16P04 S/N FCAA8984 installed.
90-20-13 Oct 14, 1990 EASA AD F-1990-031R2	3/72-494R4	Applies to Fan Blade P/N's 9527N99P08, 9527M99P09, 9527M99P10, 9527M99P11, and 1285M39P01. 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 J815PO56A, IAW CFM56-3 SB 72-494.		X	**NA3:** Installed a set of 37° Fan Blades P/N 1590M21P01, 1663M24P01 & 1663M24P02. See Fan Blade Mapping for S/Ns installed.

DATE: MAY-16-2023

WORK ORDER: 2022-605

ENGINE MODEL: CFM56-3C1 ENGINE S/N: [illegible] T.T: 32,702.51 T.C: 29,723

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NA4 = Not Applicable Due to Part Serial Numbers

A.D. NUMBER EFF. DATE	CFM56 SERVICE BULLETIN	DESCRIPTION	REPETITIVE INSPECTION YES	REPETITIVE INSPECTION NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
91-02-10 Feb 11, 1991 EASA AD F-1991-030	3/72-462R3 3/72-450R4	To prevent engine power loss or flameout while operating in heavy precipitation, install fan splitter fairing, fan stage 1 vane assembly, and new centering shroud, IAW CFM 56-3 SB 72-450. Install the 12 door variable bypass valve (VBV) configuration IAW CFM56-3 SB 72-462. Models: All CFM56-3.		X	**PCW:** Verified at this shop visit.
96-18-16 Dec 9, 1996 EASA AD F-1997-010R1	2A/72-338 2B/72-476 2C/72-728 3/72-695R1	Reidentify CFM56-2A LPT Conical Supports, P/N 305-056-110-0 and 305-056-111-0, with S/N listed in Table 1 of CFM56-2A SB 72-338 at the next piece-part exposure, but not to exceed 5,700 CSN and LPT Stub Shafts, P/N's 301-330-623-0 and 301-330-624-0, with S/N listed in Table 2 of CFM56-2A SB 72-338 at the next piece-part exposure, but not to exceed 6,400 CSN. Reidentify CFM56-2B LPT Conical Supports, P/N 305-056-106-0, 305-056-109-0, 305- 056-110-0, and 305-056-111-0, with S/N listed in Table 1 of CFM56-2B SB 72-476, at the next piece-part exposure, but not to exceed 8,700 CSN and LPT Stub Shafts, P/N's 301-330-618-0, 301-330-619-0, 301-330- 623-0, and 301-330-624-0, with S/N listed in Table 2 of CFM56-2B SB 72-476 at the next piece-part exposure, but not to exceed 8,300 CSN. Reidentify CFM56-2 LPT Conical Supports, P/N 305-056-106-0, 305-056-109-0, 305- 056-110-0, and 305-056-111-0, with S/N listed in Table 1 of CFM56-2 SB 72-728 at the next piece-part exposure, but not to exceed 18,000 CSN. Reidentify CFM56-3 LPT Stub Shafts, P/N 301-330-618-0, 301-330-619-0, 301-330-623-0, and 301-330-624-0, with S/N listed in Table 2 of CFMI CFM56-3 SB 72-695 as follows: For engines operating at the Category A thrust rating, at the next piece-part exposure, but not to exceed a total Category A thrust rating life of 20,000 CSN. For engines operating at the Category B thrust rating, at the next piece-part exposure, but not to exceed a total Category B thrust rating life of 11,400 CSN. For engines operating at the Category C thrust rating, at the next piece-part exposure, but not to exceed a total Category C thrust rating life of 7,900 CSN. Reidentify CFM56-3 LPT Conical Supports, P/N 305-056-106-0, 305-056-109- 0, 305-056-110-0, and 305-056-111-0, with S/N listed in Table 1 of CFM56-3 SB 72-695 as follows: For engines operating at the Category A thrust rating, at the next piece-part exposure, but not to exceed a total Category A thrust rating life of 12,100 CSN. For engines operating at the Category B thrust rating, at the next piece-part exposure, but not to exceed a total Category B thrust rating life of 9,300 CSN. For engines operating at the Category C thrust rating, at the next piece-part exposure, but not to exceed a total Category C thrust rating life of 5,700 CSN. Remove from service CFM56-5 LPT Conical Support, P/N 336-000-305-0, prior to accumulating 11,300 CSN.		X	**NA3:** to LPT Stub Shaft P/N 301-330-626-0 S/N BB927126 & LPT Conical Support P/N 305-056-116-0 S/N DA702724 installed.

DATE: MAY-16-2023

WORK ORDER: 2022-605

ENGINE MODEL: CFM56-3C1 ENGINE S/N: T.C: 29,723

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A.D. NUMBER EFF. DATE	CFM56 SERVICE BULLETIN	DESCRIPTION	REPETITIVE INSPECTION YES	REPETITIVE INSPECTION NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
96-25-11 Jan 29, 1997	3/72-543R8 737-71-1203R10	To prevent fan blade failure that may result in complete loss of power, accomplish the following: For CFM56-3C-1 model turbofan engines, prior to further flight, remove from service Fan Disk P/N 335-014-511-0 that have operated at unrestricted CFM56-3C-1 thrust levels with fan blade P/N's 9527M99P08, 9527M99P09, 9527M99P10, 9527M99P11, or 1285M39P01 and replace with a serviceable fan disk and remove from service Fan Blade P/N's 9527M99P08, 9527M99P09, 9527M99P10, 9527M99P11, and 1285M39P01 that have operated at unrestricted CFM56-3C-1 thrust levels and replace with a serviceable fan blade. For CFM56-3C-1 model turbofan engines equipped with Fan Blade P/N's 9527M99P08, 9527M99P09, 9527M99P10, 9527M99P11, or 1285M39P01: Prior to further flight, for aircraft that have not already complied with any of the revision levels 3 through 10 of Boeing SB No. 737-71-1203, incorporate the provisions of Boeing SB 737-71-1203. Operate engines at or below CFM56-3B-2 thrust levels, or in accordance with the limitations contained in Appendix I of this AD. For CFM56-3C-1 model turbofan engines equipped with Fan Blade P/N's 9527M99P08, 9527M99P09, 9527M99P10, 9527M99P11, or 1285M39P01, install fan blade P/N's 1590M21P01, 1663M24P01, 1663M24P02, 1663M24P03, 1663M24P04, or 1663M24P05 IAW CFM56-3 SB 72-543. The installation of new fan blades IAW this paragraph constitutes terminating action to the thrust level limitations required by this AD. For CFM56-3B-2 model turbofan engines, Serial Number (S/N) 725101, 725102, 725103, 725104, 725105, 725107, 725108, 725141, and 725142: Prior to further flight, remove from service Fan Disk P/N 335-014-511-0 that have operated at unrestricted CFM56-3C-1 thrust levels with fan blade P/N's 9527M99P08, 9527M99P09, 9527M99P10, 9527M99P11, or 1285M39P01 and replace with a serviceable Fan Disk and Prior to further flight, remove from service stage 1 fan blade P/N's 9527M99P08, 9527M99P09, 9257M99P10, 9257M99P11, and 1285M39P01 that have operated at unrestricted CFM56-3C-1 thrust levels and replace with a serviceable fan blade.		X	**NA3:** to Fan Disk P/N 335-014-511-0 S/N JN00586 installed with a set of 37° Fan Blades P/N 1590M21P01, 1663M24P01 1663M24P02 & 1663M24P04.

REVIEW *DATE: MAY-16-2023*

WORK ORDER: 2022-605

ENGINE MODEL: CFM56-3C1 T.C: 29,723

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NA3 = Not Applicable Due to Part Numbers
NA4 = Not Applicable Due to Part Serial Numbers

A.D. NUMBER EFF. DATE	CFM56 SERVICE BULLETIN	DESCRIPTION	REPETITIVE INSPECTION YES	REPETITIVE INSPECTION NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
97-08-01 Jun 23, 1997 EASA AD F-1994-195		Applies to CFM56-3 series engines with installed Fan Disks P/N's 335-014-509-0 or 335-014-511-0, which are currently operating at, or have previously operated at, the Category C thrust rating. For CFM56-3C series engines operating at the Category C thrust rating on the effective date of this AD, remove the Fan Disk prior to accumulating a total Category C thrust rating life of 20,100 cycles. For CFM56-3B and -3C series engines operating at the Category B thrust rating on the effective date of this AD, but which have previously operated at the Category C thrust rating, recalculate the fan disk total cycles remaining at the Category B thrust rating using a Category C thrust rating life of 20,100 cycles.. For CFM56-3, -3B, and -3C series engines operating at the Category A thrust rating on the effective date of this AD, but which have previously operated at the Category C thrust rating, recalculate the fan disk total cycles remaining at the Category A thrust rating using a Category C thrust rating life of 20, 100 cycles. Models: All CFM56-3 engine series.		X	**NA3:** to Fan Disk P/N 335-014-511-0 S/N JN00586 installed.
98-07-02 Mar 30, 1998 EASA AD F-1998-080R1	2/72-823R0 2/72-825R0 3/72-855R2 3/72-856R0	For CFM56-2 series engines, with HPCR stage 1-2 spool P/N 9992M60G07, with S/N's listed in CFM56-2 SB 72-825, remove the HPCR stage 1-2 spool from service at the next engine shop visit, or prior to accumulating 2,000 cycles in service since the engine shop visit that first confirmed the rub event, whichever occurs first, IAW CFM56-2 SB 72-825 and replace with a serviceable HPCR stage 1-2 spool. Install N°3 Bearing rear air/oil seal retention bushings in accordance with CFM International CFM56-2 SB 72-823. For CFM56-3 series engines, with HPCR stage 1-2 spool, P/N 1589M66G02, with part S/N's listed in CFM56-3 SB 72-856, remove the HPCR stage 1-2 spool from service at the next engine shop visit, or prior to accumulating 2,000 CIS since the engine shop visit that first confirmed the rub event, whichever occurs first, in accordance with CFM56-3 SB 72-856 and replace with a serviceable HPCR stage 1-2 spool. Install N°3 Bearing rear air/oil seal retention bushings in accordance with CFM56-3 SB 72-855. For CFM56-3 engines, having any of the following engine S/Ns: 856692, 856709, 856713, 856799, 856673, 856691, 856694, 856696, 856697, 856746, 856780, 857669, 857685, 857686, 857704, and 859115; within 15 days after the effective date of this AD remove from service N°3 Bearing rear stationary air/oil seal, P/N 1663M91G03, and replace with a serviceable N°3 bearing rear stationary air/oil seal. N°3 bearing rear stationary air/oil seals removed IAW this paragraph are unserviceable. Install N°3 bearing rear air/oil seal retention bushings IAW CFM56-3 SB 72-855. A serviceable No. 3 bearing rear stationary air/oil seal is defined as a new seal, P/N 1663M91 Models: /		X	**NA4:** to HPC 1-2 Spool P/N 1589M66G02 S/N GWN058GC installed.

REVIEWED B

DATE: MAY-16-2023

WORK ORDER: 2022-605

ENGINE MODEL: CFM56-3C1 T.C: 29,723

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NA4 = Not Applicable Due to Part Serial Numbers

A.D. NUMBER EFF. DATE	CFM56 SERVICE BULLETIN	DESCRIPTION	REPETITIVE INSPECTION YES	REPETITIVE INSPECTION NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
98-10-11 Jun 3, 1998 EASA AD F-1998-096 F-1998-097	3/72-A861R3 3/72-863R1 3/72-867R0 3/72-873R1 5A/72-523R1 5B/72-211R1 5C/72-350R1	Applies to the AGB intermediate gear assembly, AGB starter gearshaft, and TGB input bevel gear and/or output bevel gear installed in the CFM56-3 series engines, having any of the ESN's identified in Table 1 of CFM56-3 SB 72-863, Table 1 of CFM56-3 SB 72-867, or Table 1 of CFMI CFM56-3 SB 72-873; and to CFM56-5, -5B, and -5C series engines identified by ESN in Table 1 of CFM56-5 SB 72-523, CFM56-5B SB 72-211, or CFM56-5C SB 72-350. Models: All CFM56-3, CFM56-5, CFM56-5B, and CFM56-5C engine series.		X	**NA3:** to AGB P/N 335-300-112-0 S/N WB9060 & TGB P/N 335-300-011-0 S/N VB3765 installed.
98-12-32 Jul 20, 1998 EASA AD F-1997-327	2A/72-419R2 2B/72-561R1 2C/72-817R1 3/72-843R1	Perform Eddy Current inspect for cracks or gouges in HPTR disks, P/N's 1475M29P01, 1475M29P02, 9514M69P01, 9514M69P04, 9514M69P05, 9514M69P06, and 9514M69P09, with Serial Numbers listed in Table 1 of the applicable Service Bulletin (SB), as follows: For CFM56-2 engines IAW CFM56-2 SB 72-817; for CFM56-2A engines IAW CFM56-2A SB 72-419; for CFM56-2B engines IAW CFM56-2B SB 72-561; & for CFM56-3 engines IAW CFM56-3 SB 72-843. Remove from service HPTR disks found cracked or gouged, and replace with serviceable parts. Models: All CFM56-2 and CFM56-3 engine series.		X	**NA4:** to HPT Disk P/N 1475M29P02 S/N GWNGF365 installed.
98-19-10 Sep 28, 1998 EASA AD F-1998-198R1	3/72-877R3	Applies to accessory gearbox (AGB) starter gearshaft installed CFM56-3 series engines, having any of the ESN's identified in Table 1 of CFM56-3 SB 72-877. Models: CFM56-3 engine series.		X	**NA3:** AGB P/N 335-300-112-0 S/N WB9060 installed.

DATE: MAY-16-2023

C

WORK ORDER: 2022-605

ENGINE MODEL: CFM56-3C1 T.C: 29,723

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A.D. NUMBER EFF. DATE	CFM56 SERVICE BULLETIN	DESCRIPTION	REPETITIVE INSPECTION YES	REPETITIVE INSPECTION NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
2000-05-22 May 2, 2000 EASA AD F-2000-018 F-2000-019	2/72-869R0 2A/72-470R0 2B/72-611R0 3/72-922R0	Perform a one-time ECI for cracks in the bolt holes of HPT front rotating air seals to P/N 1282M72P03 listed by S/N's in paragraph 1.A(1) of CFM56-3 SB 72-922, listed by S/N in paragraph 1.A(1) of CFM56-2 SB 72-869, listed by S/N in paragraph 1.A(1) CFM56-2A SB 72-470, & listed by S/N in paragraph 1.A(1) of CFM56-2B SB 72-611 based upon engine model and thrust ratings as described in this AD, and, if necessary, replace with serviceable parts. Prior to further flight, replace cracked HPT front rotating air seals with serviceable parts. Models: All CFM56-2 and CFM56-3 engine series.		X	**NA3:** to HPT Front Airseal P/N 1282M72P05 S/N XAEJ5199 installed.
2000-15-01 Oct 2, 2000 EASA AD F-1999-245R1	2A/SB 73-055R1 2B/SB 73-076R1 2C/SB 73-110R2 3/SB 73-126R1 5A/SB 73-136R2 5B/SB 73-056R2 5C/SB 73-073R2 2A/ASB 73-A058R0 2B/ASB 73-A079R1 2C/ASB 73-A113R0 3/ASB 73-A129R0 5A/ASB 73-A143R0 5B/ASB 73-A062R1 5C/ASB 73-A078R0	Perform initial and repetitive visual inspections of the fuel pump filter cover helicoil inserts and bolts for damage in accordance with Section 2, Accomplishment Instructions, of the applicable Service Bulletins listed in paragraph (a)(5) of this AD. If the fuel pump has not been previously inspected prior to the effective date of this AD, inspect at the next fuel filter replacement, but not to exceed 200 cycles-in-service after the effective date of this AD. If the fuel pump has been previously inspected prior to the effective date of this AD, inspect at the next fuel filter replacement. Thereafter, inspect at each fuel filter replacement. If damage equals or exceeds the reject criteria stated in the SBs listed, prior to further flight remove the fuel pump from service and replace or repair the helicoil. Remove and replace the fuel pump with a newly manufactured or reworked fuel pump that incorporates a D-bolt filter cover attachment constitutes as a terminated action of this AD. Models: All CFM56-2, CFM56-3, CFM56-5, CFM56-5B, and CFM56-5C engine series.		X	**NA3:** Fuel Pump P/N 708600-7 S/N 13606 installed.

REVIEWED BY: ___ *DATE:* *MAY-16-2023*

WORK ORDER: 2022-605

ENGINE MODEL: CFM56-3C1 T.C: 29,723

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A.D. NUMBER EFF. DATE	CFM56 SERVICE BULLETIN	DESCRIPTION	REPETITIVE INSPECTION YES	REPETITIVE INSPECTION NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
2001-04-06 Apr 4, 2001 EASA AD F-1997-298R4	3/72-854R5	For CFM56-3 series engines perform a one time Fan Disk dovetail wear measurement IAW SB CFM56-3 72-854, using the intervals defined in section 1.D.(1)(a)(1) and 1.D.(1)(a)(2) of the SB, and the current Fan Disk time and cycles on the effective date of the AD. If required by the wear criteria, perform a local ultrasonic inspection for cracks in the Fan Disk IAW the SB CFM56-3 72-854 as described in section 1.D.(1)(b)1 of the SB. Lubricants Sandstrom 27A, ZIP D5460, Surf-kote A 1625, Tiolube 70 and Tiolube 75/75 are no longer approved for use on CFM56-3 series engines. Models: All CFM56-3 engine series.		X	**NA3:** to Fan Disk P/N 335-014-511-0 S/N JN00586 installed.
2001-11-05 Jun 11, 2001 EASA AD F-2001-240	2/72-A897 2/72-A896 2B/72-A0639 2B/72-A0640 3/72-A0965 3/72-A0966 5B/72-A0392 5B/72-A0393 5C/72-A0458 5C/72-A0459 7B/72-A0328R1 7B/72-A0329	To prevent bearing failure, replace N°4 bearing P/N 305-355-717-0 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. Models: All CFM56-2, CFM56-2B, CFM56-3, CFM56-5B, CFM56-5C, and CFM56-7B engine series.		X	**NA3:** to N°4 Bearing P/N 335-352-303 S/N DC265860-6 installed.
2002-13-03 Aug 1, 2002 EASA AD F-2002-390		Perform enhanced inspection listed in this AD of selected life limited parts at piece part level disassembly: Fan Disk, Fan Shaft, HPC C-1-to-2 Spool , HPC C-3 Disk, HPC C-4-to-9 Spool, HPC Front Shaft, HPC Rear (CDP) Air Seal, HPT Disk, HPT Front Rotating Air Seal, LPT T-1 Disk, LPT T-2 Disk, LPT Stage 3 Disk, LPT T-4 Disk, LPT T-5 Disk (CFM56-5C Only), LPT Rotor Support, LPT Shaft, LPT Stub Shaft (CFM56-2/-2A/-2B/-3/-3B/-3C Only). Models: All CF	X		**CW:** to Fan Disk, Fan Shaft, HPC FR Shaft, HPC Stg 1-2 Spool, HPC Stg 3 Disk, HPC Stg 4-9 Spool, HPC RR (CDP) Air Seal, HPT Disk, HPT FR Rotating Air Seal, LPT Stg 2 Disk, LPT Stg 3 Disk, LPT Stg 4 Disk, LPT Shaft & LPT Stub Shaft

REVIEWED BY: ____ *DATE:* *MAY-16-2023*

WORK ORDER: 2022-605

ENGINE MODEL: CFM56-3C1 T.C: 29,723

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A.D. NUMBER EFF. DATE	CFM56 SERVICE BULLETIN	DESCRIPTION	REPETITIVE INSPECTION YES	REPETITIVE INSPECTION NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
2004-10-13 Jun 24, 2004 EASA AD F-2004-095	2/73-0104R3 3/73-0120R6 5A/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 listed by Part Number in this AD at the next shop visit or pump replacement, but no later than Jan 1, 2007. Models: All CFM56-2, CFM56-3, and CFM56-5 engine series.		X	**NA3:** Fuel Pump P/N 708600-7 S/N 13606 installed.
2006-26-01 Jan 3, 2007		Replace fuel filters Western Filter part numbers (P/Ns) WF337661 and WF337017 and PTI Technologies P/Ns 7595983-101 and 7588133 with new part number ones not listed in this AD. Models: All CFM56 Engine Models.		X	**NA3:** to P/N 7597062-101 installed.
2009-11-02 Jun 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 accumulating 8,900 cycles since repair at PTLLC or within 1,100 from the effective date of this AD. Models: All CFM56 Engine Models.		X	**NA3:** to HPC 4-9 Spool P/N 1588M89G03 S/N GWN06GCE installed
2010-12-03 Jul 13, 2010 EASA AD 2009-0036	72-1067R1	Perform a 900 cycles-in-service after the effective date of this AD of the fan blade and damper for wear to the 25° midspan shroud Fan Blades parts numbers P/N's 9527M99P08, 9527M99P09, 9527M99P10, 9527M99P11, 1285M39P01, or fan blade pairs, P/Ns 335-088-901-0, 335-088-902-0, 335-088-903-0, and 335-088-904-0 installed. Thereafter, perform a re-inspection within intervals not to exceed 3,000 cycles-since-last inspection. Don't install any 25° midspan shroud Fan Blades of the listed P/N, unless they have passed an inspection specified in paragraph 3 of SB 72-1067. Optional Terminated action is to replace the 25° midspan shroud Fan Blade set with a 37° midspan shroud Fan Blade set. Models: CFM56-3 & -3B Engines		X	**NA3:** Installed a set of 37° Fan Blades P/N 1590M21P01, 1663M24P01 1663M24P02 & 1663M24P04. See Fan Blade Mapping for S/Ns installed.
2013-26-01 Feb 3, 2014					**Superseded by 2022-02-03**

REVIEWED I *DATE: MAY-16-2023*

CF S

WORK ORDER: 2022-605

ENGINE MODEL: CFM56-3C1 T.C: 29,723

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NA4 = Not Applicable Due to Part Serial Numbers

A.D. NUMBER EFF. DATE	CFM56 SERVICE BULLETIN	DESCRIPTION	REPETITIVE INSPECTION YES	REPETITIVE INSPECTION NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
2015-18-04 Oct 20, 2015 EASA AD 2015-0133	7B/72-0964R2	Perform AGB/Transfer Gearbox (TGB)/Magnetic Chip Detector (MCD) Inspection and Analysis. Initial inspection For 73-tooth gearshafts and 41-tooth gearshafts within 250 flight hours (FHs) since last inspection, with 25 flight hours from the effective date of this AD, or when the gearshaft accumulates 3,000 (for 73-tooth) or 6,000 (for 41-tooth) flight hours since new, whichever comes later. Perform a repetitive inspection of the AGB/TGB MCD and laboratory analysis within every 500 FHs since the last MCD inspection until affected gearshaft is removed. If any magnetic particles, including fuzz, are seen, determine with laboratory If the particles are 73-tooth or 41-tooth gearshaft material, remove the affected gearshaft(s) within 75 FHs since the AGB/TGB MCD inspection. Remove the affected 73-tooth gearshaft and 41-tooth gearshaft prior to the gearshaft accumulating 6,000 FHs (for 73-tooth) and 9,000 FHs (for 41-tooth) since new or within 50 FHs after the effective date of this AD, whichever comes later. After the effective date of this AD, do not install an affected gearshaft into an AGB of the CFM56-3 and CFM56-7B engine series. Models: All CFM56-3 and ALL CFM56-7B engine series.		X	**NA3:** to AGB P/N 335-300-112-0 S/N WB9060 & TGB P/N 335-300-011-0 S/N VB3765 installed.
2016-14-10 Aug 9, 2016		Applies to engines modified by Supplemental Type Certificate SE00034EN, with a HPT Disk Part Number 880026 with serial number GKLBAA9307, GKLBAA9335, GKLBAA9404, GKLBAA9407, or GKLBAA9409, installed. For engines operating to 20,100 lbs maximum takeoff (MTO) thrust, remove the HPT disk from service on or before accumulating 8,000 cycles-since-new (CSN). For engines operating to 22,100 lbs MTO thrust, remove the HPT disk from service on or before accumulating 8,000 CSN. For engines operating to 23,500 lbs MTO thrust, remove the HPT disk from service on or before accumulating 4,000 CSN. For HPT disks that have been used in multiple models or thrust installations, use the formula in the ADDED DATA section of Pratt & Whitney Special Instruction 6F-12, Revision A, dated May 17, 2016 to calculate the remaining life on the disk. Models:		X	**NA3:** to HPT Disk P/N 1475M29P02 S/N GWNGF365installed.

REVIEWED B *DATE: MAY-16-2023*

WORK ORDER: 2022-605

ENGINE MODEL: CFM56-3C1 T.C: 29,723

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A.D. NUMBER EFF. DATE	CFM56 SERVICE BULLETIN	DESCRIPTION	REPETITIVE INSPECTION YES	REPETITIVE INSPECTION NO	COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST.
2017-14-08 Aug 18, 2017 EASA AD 2017-0149R1	3/72-1169R3	Applies to engines installed with Steel HPC Stator Cases Part Numbers (P/Ns) 1499M30G01, 1499M30G02, 1499M30G03, or 1676M88G01 that do not have mark "RP031" next to the P/N. Within 12 months after the effective date of this AD, perform an initial pull force check of stage 1, stage 2, and stage 3 of the Compressor VSV actuation system. If any stage requires more than 100 lb force to move the actuation ring, accomplished the instructions in paragraph (f) of this AD prior to further flight, or replace with an HPC stator case that is eligible for installation and passes the VSV pull force check with measurements of 75 lb or less. If any stage requires more than 75 lb, but less than or equal to 100 lb force to move the actuation ring, repeat the inspection within 3 months since last inspection. If all stages require 75 lb force or less to move the actuation rings, repeat the inspection within 12 months since last inspection. Thereafter, continue to perform repetitive pull force checks of stages 1, 2, and 3 of the compressor VSV actuation system and disposition as specified in this AD. Optional Terminated action is to ream the VSV bores and applying anti-corrosion coating, as specified in paragraph (f)(2)(i) of this AD. Models: All CFM56-3 Engine Series.	X		**CW:** Pull force checks performed at this shop visit. Re-inspection is due before APR-17-2024. VSV STAGE -1 OPEN: 20 LB CLOSED: 15 LB VSV STAGE -2 OPEN: 20 LB CLOSED: 19 LB VSV STAGE -3 OPEN: 40 LB CLOSED: 37 LB Steel HPC FR Cases P/N 1676M88G01 S/N GWNMP658
2022-02-03 Mar 22, 2022 EASA AD 2020-0261	3/ 72-1129R7 7B/72-0564R9 7B/72-0879R7 7B/72-1071R0	For all CFM56-3, at the next shop visitor or before December 31, 2026; replace or modified engines with Accessory Gearbox (AGB) P/N's 335-300-103-0, 335-300-105-0, 335-300-106-0, 335-300-107-0, 335-300-108-0, 335-300-109-0, or 335-300-110-0 with a Part Number not listed in this AD. See SB CFM56-3 72-1129. For all CFM56-7B (except for -7B27A, -7B27A/3 and -7B27AE), at the next shop visitor or before December 31, 2024; replace or modified engines with AGB P/N's 340-046-503-0, 340-046-504-0, or 340-046-505-0 with a Part Number not listed in this AD. See SBs CFM56-7B 72-0564, 0879, & 1071. For CFM56-7B27A, CFM56-7B27A/3, or CFM56-7B27AE engines with installed AGB P/N: 340-188-601-0, 340-188-603-0, or 340-188-605-0; perform an independent Inspection to verify re-installation of the AGB Handcranking Pad Cover after any maintenance that involves the removal and re-installation of the AGB handcranking pad cover. Operators are required to add this as a RII to their existing approved continuous airworthiness r Models: All Cl		X	**CW:** Terminating action accomplished AGB P/N 335-300-112-0 S/N WB9060 installed.

REVIEWED BY: _ *DATE:* MAY-16-2023

TEST

CELL

DATA

1. Approving Civil Aviation Authority/Country:	2.	3. Form Tracking Number:
FAA/United States	**AUTHORIZED RELEASE CERTIFICATE** **FAA Form 8130–3, AIRWORTHINESS APPROVAL TAG**	23-XTR-026
4. Organization Name and Address:		5. Work Order/Contract/Invoice Number: 010267

6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:
1	ENGINE	CFM56-3C1	1 EA		TESTED

12. Remarks:

Engine received limited scope of work as follows:

"ACCOMPLISHED TEST 10 ON ENGINE SN 858344 INSTALLED ON TESTING APPARATUS MSN 26596 AT CALCULATED THRUST RATING OF 23.5K AS PER B737 AMM 71-00-00 REVISION No 97 DATED MARCH 25, 2023"

"ACCOMPLISHED 365 DAY PRESERVATION AS PER B737 AMM 71-00-03 REVISION No 97 DATED MARCH 25, 2023"

"Xtreme Aviation, LLC. certifies that the work specified in block 11/12 was carried out in accordance with EASA Part-145 and with respect to that work the component is considered ready to release to service under EASA Part-145 Approval Number: "EASA.145.6734"

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.: 4XAR847C
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed): JOSE ALEJANDRO GIL	14e. Date (dd/mmm/yyyy): 10/MAY/2023

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.

I. Tracking# 23-MPA-34		III. STATION KOPF
II. DATE May-10-2023		IV. A/C REG / MSN MSN26596

ENGINE RUN PERFORMANCE DATA

V. POWER SETTING:	23.5K	VI. REASON:	TEST 10
VII. THRUST RATING:	23.5K		

VIII. Eng. Pos.	IX. Engine Model	X. Engine S/N	XI. MEC P/N	XII. WORK ORDER	XIII. PMC P/N	XIV. TANK N.	XV. Fuel Qty (lbs)
1	CFM56-3C1		8063-215	10267	7157M68P03	N.1	5800
			WYG66082		ECDB0377	N.2	5200
					FUEL TYPE: JET A	CTR	0
						TOTAL	11000

1. ENGINE TEST PARAMETERS

Engine Start Data (EGT not to exceed 725 °C)

ENGINE POSITION	Start Lever Adv. N2%	Start Lever Adv. Motoring Time Sec.	INITIAL FUEL FLOW	LIGHT-UP TIME SEC.	STARTER CUTOUT N2%	MAX EGT (CENTRIGRADES)	MAX FUEL FLOW	TIME TO IDLE SEC	ENGINE OIL QTY	ENGINE OIL TEMP	ENGINE OIL PRESSURE	AVM UNITS
1	25.0%	26	0.01	2	47.1%	605	1.08	60	4	100	20	0.2
2												

Test No. 4 - IDLE SPEED

Low Idle limit: +3.0 / -1.0 N2% — *High Idle limit: +3.0 / -.7 N2%*

ENGINE POS.	OAT (°C)	BARO	Low Idle (N2 %) Target	Low Idle (N2 %) Recorded	High Idle (N2 %) Target	High Idle (N2 %) Recorded
1	32	30	62.5	63	73.1	74.6
2						

Test No. 5A Power Assurance Check (80% N1)

0.3	OAT (°C)	BARO	TARGET N1	Recorded Values N1%	N2%	EGT (°C)	FUEL FLOW	OT	OP	Vibe
1	32	30	82.2	82.2	95.3	711	5.63	120	49	0.8
2										

Test #5A Power Assurance Check (80% N1)

ENGINE POS.	OAT (°C)	TARGET N1	Recorded Values N1%	N2%	EGT	ADJ EGT FOR N1	MAX EGT 23.5K	BASE EGT MARGIN	TCC TIMER MARGIN ADJ	TCC TIMER OFF OR ON	THRUST RATING	N2 adj for	Adjusted N2	MAX N2	%N2 Margin
1	32	82.2	82.2	95.3	711	N/A	748	37	N/A	OFF	23.5K	N/A	95.3	95.7	0.4
2															

Test No. 5B Power Assurance Check (85% N1)

ENGINE POS.	OAT (°C)	BARO	TARGET N1	Recorded Values N1%	N2%	EGT (°C)	FUEL FLOW	OT	OP		Vibe
1	32	30	87.3%	87.3	97.1	755	6.57	110	50		0.8
2											

Test #5B Power Assurance Check (85% N1)

ENGINE POS.	OAT (°C)	TARGET N1	Recorded Values N1%	N2%	EGT	ADJ EGT FOR N1	MAX EGT 23.5K	BASE EGT MARGIN	TCC TIMER MARGIN ADJ	TCC TIMER OFF OR ON	THRUST RATING	N2 adj for	Adjusted N2	MAX N2	%N2 Margin
1	32	87.3%	87.3%	97.1	755	N/A	799	44	N/A	OFF	23.5K	N/A	97.1	97.60	0.50
2															

Test No. 5C Power Assurance Check (90% N1)

ENGINE POS.	OAT (°C)	BARO	TARGET N1	Recorded Values N1%	N2%	EGT (°C)	FUEL FLOW	OT	OP		Vibe
1	32	30	91.9%	91.9	99.2	809	7.81	120	50		0.5
2											

Test #5C Power Assurance Check (90% N1)

ENGINE POS.	OAT (°C)	TARGET N1	Recorded Values N1%	N2%	EGT	ADJ EGT FOR N1	MAX EGT 23.5K	BASE EGT MARGIN	TCC TIMER MARGIN ADJ	TCC TIMER OFF OR ON	THRUST RATING	N2 adj for	Adjusted N2	MAX N2	%N2 Margin
1	32	91.9%	91.9%	99.2	809	N/A	854	45	N/A	OFF	23.5K	N/A	99.2	99.50	0.30
2															

Test No. 5D Takeoff Power Check

ENGINE POS.	OAT (°C)	BARO	TARGET N1	Recorded Values N1%	N2%	EGT (°C)	FUEL FLOW	RED LINE	MARGIN	4.INSP.
1	32	30	98.6%	98.6	100.8	883	9.76	930	47	XA 19
2										

I. Tracking #		III. STATION
23-MPA-34		KOPF
WO#010267		IV. A/C REG / MSN
II. DATE		MSN26596
5/10/2023		

ENGINE RUN PERFORMANCE DATA

TEST NO. 6 - MEC TRIM

ENG POS	OAT	BARO	WIND		PMC OFF (%N2)		PMC ON (%N1)	
			VELOCITY (KNOTS)	DIRECTION	TARGET	RECORDED	TARGET	RECORDED
1	32	30			94	94.2	75.5	75.5

TEST NO. 7 - VIBRATION SURVEY

ENG POS	OAT	BARO	BARO	STATIC T.O. TARGET (%N1)	SELECTOR SWITCH POSITION
1	32	30	30	98.6	ON

ACCEL			DECEL		
%N1	%N2	VIBRATION READING (UNITS)	%N1	%N2	VIBRATION READING (UNITS)
54.4	86.8	0.5	91.9	99.3	0.9
65.5	90.1	0.7	85.5	96.5	0.9
73.6	92.4	0.8	76.6	93.6	0.9
82.2	95.4	0.8	74	92.9	0.8
87	97	0.8	64.6	89.9	0.5
91.9	99.1	1	53.5	86.8	0.5

%N1	%N2	VIBRATION READING (UNITS)								MEAN VIBRATION READING (UNITS)	SOURCE			
		SEC	30 SEC	SEC	60 SEC	SEC	90 SEC	SEC	120 SEC		FAN	LPT	HPT	HPC

ACCEL/DECEL CHECK

ENG POS	OAT (°C)	BARO	TARGET VALUES (%N1)		ACCEL TIME (SEC)		
			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)	HIGH IDEL TO ACCEL CHECK TARGET (7 4 Sec. Max)
1	32	30	98.6	96.4	N/A	N/A	6.5

** NOTE: ENGINES WITH THE HPTCC TIMER, Adjust the EGT and N2 margins for these effects: HPTCC Timer On engines operated at 22,000 pounds thrust or less, increase the EGT margin by 17C. **

NOTE: 1) If the N1 target is more than the N1 record, there is a positive (+) difference.
2) If the N1 target is less than the N1 record, there is a negative (-) difference.

4.INSP. XA 19

2. REMARKS AND DISCREPANCIES:

3.TASK CARD COMPLETED BY (SIGN & LICENSE): 5/13/2023

4.INSP. XA 10

BORESCOPE REPORT

CFM56 BORESCOPE INSPECTION REPORT

WORK ORDER:	2022-605	DATE:	5/16/2023	A/C S/N/:	N/A
CUSTOMER:		ESN:			N/A
MODEL #:	CFM56-3C-1	LOCATION:			
WORK REQUEST:	FULL GAS FLOWPATH INSPECTION				
REASON:	POST-TEST BSI				
TECHNICIAN(S):					

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:	C/W BY:
FRONT OF ENGINE	FAN MAJOR MODULE	NO DAMAGE NOTED	5/16/2023	

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
FRONT OF ENGINE	FAN BLADES CFM56-3 (38ea)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
FRONT OF ENGINE	LPC STAGE-2 BLADE LE CFM56-3 (68ea)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
BOOSTER BORESCOPE PORT S0 / S03	LPC STAGE-3 BLADE TE CFM56-3 (68ea)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
BOOSTER BORESCOPE PORT S0 / S03	LPC STAGE-4 BLADE LE CFM56-3 (68ea)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
CORE BORESCOPE PORT S1	HPC STAGE-1 BLADE LE (CFM56 All Series 38ea)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
CORE BORESCOPE PORT S2	HPC STAGE-1 BLADE TE (CFM56 All Series 38ea)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
CORE BORESCOPE PORT S2	HPC STAGE-2 BLADE LE (CFM56 All Series 53ea)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
CORE BORESCOPE PORT S3	HPC STAGE-2 BLADE TE (CFM56 All Series 53ea)	NO DAMAGE NOTED	5/16/2023

CFM56 BORESCOPE INSPECTION REPORT

WORK ORDER:	2022-605	DATE:	5/16/2023	A/C S/N/:	N/A
CUSTOMER:	JET	ESN:			N/A
MODEL #:	CFM56-3C-1	LOCATION:			
WORK REQUEST:	FULL GAS FLOWPATH INSPECTION				
REASON:	POST-TEST BSI				
TECHNICIAN(S):					

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
CORE BORESCOPE PORT S3	HPC STAGE-3 BLADE LE (CFM56 All Series 60ea)	NO DAMAGE NOTED	5/16/2023
CORE BORESCOPE PORT S4	HPC STAGE-3 BLADE TE (CFM56 All Series 60ea)	NO DAMAGE NOTED	5/16/2023
CORE BORESCOPE PORT S4	HPC STAGE-4 BLADE LE (CFM56 All Series 68ea)	NO DAMAGE NOTED	5/16/2023
CORE BORESCOPE PORT S5	HPC STAGE-4 BLADE TE (CFM56 All Series 68ea)	NO DAMAGE NOTED	5/16/2023
CORE BORESCOPE PORT S5	HPC STAGE-5 BLADE LE (CFM56 All Series 75ea)	NO DAMAGE NOTED	5/16/2023
CORE BORESCOPE PORT S6	HPC STAGE-5 BLADE TE (CFM56 All Series 75ea)	NO DAMAGE NOTED	5/16/2023
CORE BORESCOPE PORT S6	HPC STAGE-6 BLADE LE (CFM56 All Series 82ea)	NO DAMAGE NOTED	5/16/2023
CORE BORESCOPE PORT S7	HPC STAGE-6 BLADE TE (CFM56 All Series 82ea)	NO DAMAGE NOTED	5/16/2023
CORE BORESCOPE PORT S7	HPC STAGE-7 BLADE LE (CFM56 All Series 82ea)	NO DAMAGE NOTED	5/16/2023
CORE BORESCOPE PORT S8	HPC STAGE-7 BLADE TE (CFM56 All Series 82ea)	NO DAMAGE NOTED	5/16/2023

CFM56 BORESCOPE INSPECTION REPORT

WORK ORDER:	2022-605	DATE:	5/16/2023	A/C S/N/:	N/A
CUSTOMER:	JET	ESN:			N/A
MODEL #:	CFM56-3C-1	LOCATION:			
WORK REQUEST:	FULL GAS FLOWPATH INSPECTION				
REASON:	POST-TEST BSI				
TECHNICIAN(S):					

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
CORE BORESCOPE PORT S8	HPC STAGE-8 BLADE LE (CFM56 All Series 80ea)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
CORE BORESCOPE PORT S9	HPC STAGE-8 BLADE TE (CFM56 All Series 80ea)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
CORE BORESCOPE PORT S9	HPC STAGE-9 BLADE LE (CFM56 All Series 76ea)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
COMBUSTION BORESCOPE PORT S10 / S11 / S12 / S13 / S14 / S15	COMBUSTION CHAMBER(S) AND FUEL NOZZLE(S) (360°)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
COMBUSTION BORESCOPE PORT S10 / S11 / S12 / S13 / S14 / S15	HPT NGV'S (360°)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
COMBUSTION BORESCOPE PORT S10 / S11 / S12 / S13 / S14 / S15	HPT SHROUDS (360°)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
COMBUSTION BORESCOPE PORT S10 / S11 / S12 / 13 / S14 / S15	DISCOURAGER SEAL (Only Accessible Area Visible During HPT Blade LE Inspection)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
COMBUSTION BORESCOPE PORT S10 / S11 / S12 / 13 / S14 / S15	HPT BLADES LE CFM56-3 (72ea)	NO DAMAGE NOTED	5/16/2023

CFM56 BORESCOPE INSPECTION REPORT

WORK ORDER:	2022-605	DATE:	5/16/2023	A/C S/N/:	N/A
CUSTOMER:	JET	ESN:			N/A
MODEL #:	CFM56-3C-1	LOCATION:			
WORK REQUEST:	FULL GAS FLOWPATH INSPECTION				
REASON:	POST-TEST BSI				
TECHNICIAN(S):					

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
MOD12 BORESCOPE PORT S16 / S17 / S18	HPT BLADES TE CFM56-3 (72ea)	NO DAMAGE NOTED	5/16/2023
MOD12 BORESCOPE PORT S16 / S17 / S18	LPT STAGE-1 VANES LE (360°)	NO DAMAGE NOTED	5/16/2023
MOD12 BORESCOPE PORT S16 / S17 / S18	LPT STAGE-1 BLADES LE CFM56-3 (174ea)	NO DAMAGE NOTED	5/16/2023
MOD12 BORESCOPE PORT PORT S18 / S20	LPT STAGE-1 BLADES TE CFM56-3 (174ea)	NO DAMAGE NOTED	5/16/2023
LPT BORESCOPE PORT S18 / S20	LPT STAGE-2 BLADES LE CFM56-3 (162ea)	NO DAMAGE NOTED	5/16/2023
LPT BORESCOPE PORT S19 / S21	LPT STAGE-2 BLADES TE CFM56-3 (162ea)	NO DAMAGE NOTED	5/16/2023
LPT BORESCOPE PORT S19 / S21	LPT STAGE-3 BLADES LE CFM56-3 (157ea)	NO DAMAGE NOTED	5/16/2023
LPT BORESCOPE PORT S20 / S22	LPT STAGE-3 BLADES TE CFM56-3 (157ea)	NO DAMAGE NOTED	5/16/2023
LPT BORESCOPE PORT S20 / S22	LPT STAGE-4 BLADES LE CFM56-3 (160ea)	NO DAMAGE NOTED	5/16/2023

CFM56 BORESCOPE INSPECTION REPORT

WORK ORDER:	2022-605	DATE:	5/16/2023	A/C S/N/:	N/A
CUSTOMER:	JET	ESN:			/A
MODEL #:	CFM56-3C-1	LOCATION:			
WORK REQUEST:	FULL GAS FLOWPATH INSPECTION				
REASON:	POST-TEST BSI				
TECHNICIAN(S):					

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
REAR OF ENGINE	LPT STAGE-4 BLADES TE CFM56-3 (160ea)	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
REAR OF ENGINE	LPT REAR FRAME SECTION	NO DAMAGE NOTED	5/16/2023

ACCESS:	AREA OF INSPECTION:	NOTES:	DATE:
ENGINE	FAN DUCTS & MODULE FRAMES AND ACCESSIBLE TUBES AND CASES	NO DAMAGE NOTED	5/16/2023

ACCESSORY INVENTORY

WORK ORDER: 2022-605 INCOMING( ) OUTGOING (X)	FAA CRS J9GR114O CFM56-3 MODELS QEC ACCESSORY INVENTORY	MODEL: CFM56- 3C1 ESN

1. Record part numbers and serial numbers. If part data plate is missing, state so in the Remarks block.
2. Each Item must be filled out (if applicable)

Abbreviations: N/R - Not Received N/A – Not Applicable N/I - Not Installed N/V- Not Visible
O/H – Overhaul B/C - Bench Check C/T - Continued Time INST- Installed

COMPONENT& TYPICAL PART NUMBER(S)	PART NUMBER	SERIAL NUMBER	CONDITION	REMARKS
Engine Data Plate	MODEL: CFM56- 3C1	ESN:	INST	
Front Spinner Cone (335-106-402-0) (335-106-403-0) (335-106-404-0) (335-106-405-0)	335-106-402-0	DB11128-W	C/T	
Rear Spinner Cone (335-011-205-0) (335-011-207-0) (335-011-208-0)	335-011-208-0	RT05645	C/T	
Valve TAI Nose Cowl Assembly (172625-5) (S332A101-5) (172625-6) (S332A101-6) (172625-7) (S332A101-7) (3290662-1) (S332A101-8)	172625-7	1789CD	INST	
Thermal Anti-Ice Switch (21SN41-52)	N/V	N/V	INST	
Upper Ignition Exciter Box (9238M66P05) (10-617980-1) (9238M66P07) (10-631045-1) (9238M66P08) (10-631045-2) (9238M66P11) (10-631045-3) (CH92100) (1538M69P01) (45570-1)	10-631045-1	UNNDC016	INST	
Lower Ignition Exciter Box (9238M66P05) (10-617980-1) (9238M66P07) (10-631045-1) (9238M66P08) (10-631045-2) (9238M66P11) (10-631045-3) (CH92100) (1538M69P01) (45570-1)	10-631045-1	UNNDC480	INST	

WORK ORDER: 2022-605 INCOMING( ) OUTGOING (X)	FAA CRS J9GR114O CFM56-3 MODELS QEC ACCESSORY INVENTORY	MODEL: CFM56- 3C1 ESN. _____

1. Record part numbers and serial numbers. If part data plate is missing, state so in the Remarks block.
2. Each Item must be filled out (if applicable)

Abbreviations: N/R - Not Received N/A – Not Applicable N/I - Not Installed N/V- Not Visible
O/H – Overhaul B/C - Bench Check C/T - Continued Time INST- Installed

COMPONENT& TYPICAL PART NUMBER(S)	PART NUMBER	SERIAL NUMBER	CONDITION	REMARKS
Right High Tension Lead (10-621125-1) 9339M26P03) (45049) (9339M26P05) (9043172-1) (9339M26P07) (9043185-1) (9339M26P09) (9043185-13) (9339M26P13) (9043185-15) (9339M26P15) (CH53552-1)	9043185-13	UNN3J054	INST	
Left High Tension Lead (10-621125-2) (9339M26P04) (45050) (9339M26P06) (9043172-2) (9339M26P08) (9043185-2) (9339M26P10) (9043185-14) (9339M26P14) (9043185-16) (9339M26P16)	9043185-14	N/V	INST	
Spark Igniters (CH31706) (9276M36P01) (CH31706A) (9276M36P02) (CH31706D) (9276M36P05) (10-630103-1) (9275M71P01) (9044070-1) (9275M71P02) (9044035-1) (1374M12P01) (9072215-1) (1374M12P10) (9072215-2) (1374M12P12) (CH31806) (1374M13P01) (CH31900) (1374M13P05) (CH31900-6) (1374M13P11)	N/V	N/V	INST	1 ___ or 2_x__
High Stage Regulator (107492-1) (10-62008-10) (107484-3) (10-62008-15) (107484-5) (10-62008-31) (107484-6) (10-62008-39)	107484-7	3373	INST	
T12 Temperature Sensor (301-771-601-0) (154BY) (301-798-601-0) (RP211-00)	N/V	N/V	INST	

WORK ORDER: 2022-605 INCOMING( ) OUTGOING (X)	FAA CRS J9GR114O CFM56-3 MODELS QEC ACCESSORY INVENTORY	MODEL: CFM56- 3C1 ESI _____

1. Record part numbers and serial numbers. If part data plate is missing, state so in the Remarks block.
2. Each Item must be filled out (if applicable)

Abbreviations: N/R - Not Received N/A – Not Applicable N/I - Not Installed N/V- Not Visible
O/H – Overhaul B/C - Bench Check C/T - Continued Time INST- Installed

COMPONENT& TYPICAL PART NUMBER(S)	PART NUMBER	SERIAL NUMBER	CONDITION	REMARKS
Power Management Control/PMC For CFM56-3-B1: (7157M62P05) (7090M98G05) (7157M62P06) (7090M98G06) (7157M66P01) (7139M84G01) (7157M66P02) (7139M84G02) (7157M66P03) (7139M84G03) For CFM56-3B-2: (7157M63P01) (7125M15G01) (7157M63P02) (7125M15G02) (7157M67P01) (7139M91G01) (7157M67P02) (7139M91G02) (7157M67P03) (7139M91G03) For CFM56-3C-1: (7157M68P03) (7147M10G03) (7157M68P04) (7147M10G04)	7157M68P03	ECDB0377	INST	
Oil Tank Transmitter (10-60722-11) (20041-0000-03)	20041-0000-03	9712	INST	
Oil Tank (335-261-202-0) (335-261-203-0)	335-261-203-0	4739	INST	
N1 Speed Sensor (320-094-001-0) (320-094-002-0) (3212KGB01)	320-094-001-0	13380	INST	
Lube Unit (335-261-001-0) (335-261-002-0) (335-261-003-0) (335-261-004-0) (335-261-005-0)	335-261-005-0	4428	INST	
Oil Filter Differential Switch (10-3269-13) (21SN04-226A)	21SN04-226A	L196B	INST	

WORK ORDER: 2022-605 INCOMING( ) OUTGOING (X)	FAA CRS J9GR114O CFM56-3 MODELS QEC ACCESSORY INVENTORY	MODEL: CFM56- 3C1 ESN:

1. Record part numbers and serial numbers. If part data plate is missing, state so in the Remarks block.
2. Each Item must be filled out (if applicable)

Abbreviations: N/R - Not Received N/A – Not Applicable N/I - Not Installed N/V- Not Visible
O/H – Overhaul B/C - Bench Check C/T - Continued Time INST- Installed

COMPONENT& TYPICAL PART NUMBER(S)	PART NUMBER	SERIAL NUMBER	CONDITION	REMARKS
Fuel Filter Differential Pressure Switch (S332T004-7) (21SN04-209A)	21SN04-209A	A135B	INST	
Upper Fire Detector Harness Kidde Type: (472094) (10-61096-47) (472583) (472583-1) (S332T101-2) Systron Donner Type: (6674) (10-61096-55)	N/V	N/V	INST	System Type: ☐Systron Donner ☒Kidde
Lower Fire Detector Harness Kidde Type: (899321) (10-61096-46) (472584) (472584-1) (S332T101-1) Systron Donner Type: (6676) (10-61096-56)	472584	2001	INST	System Type: ☐Systron Donner ☒Kidde
AFT Fire Detector Harness Kidde Type: (899323) (10-610996-48) (472582) (472582-1) (S332T101-3) Systron Donner Type: (6678) (10-61096-58)	N/I	N/I	N/I	System Type: ☐Systron Donner ☐Kidde
T-2 Fan Inlet Temperature Sensor (8901-278) (9375M82P01) (8901-326) (9375M82P04)	8901-326	WYG75896	B/C	
Fuel Nozzle Filter (FA00914D) (301-807-203-0)	301-807-203-0	YY015654-A	INST	
High Pressure Turbine Clearance Control Valve Timer / HPTCCV Timer (7119M71G03) (7119M71G07)	7119M71G03	APMKM720	B/C	
HPTCCV Timer Lockout Solenoid (3264-100) (301-787-401-0)	N/V	N/V	INST	

WORK ORDER: 2022-605 INCOMING( ) OUTGOING (X)	FAA CRS J9GR114O CFM56-3 MODELS QEC ACCESSORY INVENTORY	MODEL: CFM56- 3C1 ESN

1. Record part numbers and serial numbers. If part data plate is missing, state so in the Remarks block.
2. Each Item must be filled out (if applicable)

Abbreviations: N/R - Not Received N/A – Not Applicable N/I - Not Installed N/V- Not Visible
O/H – Overhaul B/C - Bench Check C/T - Continued Time INST- Installed

COMPONENT& TYPICAL PART NUMBER(S)	PART NUMBER	SERIAL NUMBER	CONDITION	REMARKS
Fuel Flow Transmitter (8TJ124GGM1) (S347T001-6)	8TJ124GGM1	4820L	INST	
Oil Pressure Switch (21SN04-211A) (10-3269-12)	21SN04-211A	0362B	INST	
Oil Pressure Transmitter (418-20044)	418-20044	9225064	INST	
Heat Exchange Oil Fuel (69202-300-1) (301-776-401-0) (69202-300-2) (301-776-402-0) (69202-300-3) (301-776-403-0) (45332-8035) (301-780-501-0) (45332-8038) (301-780-502-0)	69202-300-3	13047	INST	
Main Fuel Pump (708300-1) (301-778-801-0) (708300-2) (301-778-802-0) (708300-4) (301-778-804-0) (708300-5) (301-778-805-0) (708300-6) (301-778-806-0) (708600-1) (301-779-001-0) (708600-5) (301-779-005-0) (708600-7) (301-779-007-0)	708600-7	13606	B/C REP	
Engine Throttle Fuel Control Box For CFM56-3-B1 & -3B-2: (315A1040-4) / for B737-300 (315A1040-5) / for B737-300 (315A1040-6) / for B737-300 (315A1040-8) / for B737-400 (315A1040-10) / for B737-500 For CFM56-3C-1: (315A1040-7) / for B737-300 (315A1040-9) / for B737-400 (315A1040-11) / for B737-500	N/I	N/I	N/I	

WORK ORDER: 2022-605 INCOMING( ) OUTGOING (X)	FAA CRS J9GR114O CFM56-3 MODELS QEC ACCESSORY INVENTORY	MODEL: CFM56- 3C1 ESN ___

1. Record part numbers and serial numbers. If part data plate is missing, state so in the Remarks block.
2. Each Item must be filled out (if applicable)

Abbreviations: N/R - Not Received N/A – Not Applicable N/I - Not Installed N/V- Not Visible
O/H – Overhaul B/C - Bench Check C/T - Continued Time INST- Installed

COMPONENT& TYPICAL PART NUMBER(S)	PART NUMBER	SERIAL NUMBER	CONDITION	REMARKS
Heat Fuel Servo (45731-1251-1) (301-776-501-0) (45731-1252) (301-776-502-0)	45731-1251-1	FHS1348	INST	
Main Engine Control / MEC For CFM56-3-B1: (8062-475) (9368M57P10) (8062-477) (9368M57P11) (8062-488) (9368M57P12) (8062-489) (9368M57P13) (8062-493) (9368M57P15) (8062-494) (9368M57P16) (8063-201) (9368M57P17) (8063-202) (9368M57P18) (8063-208) (9368M57P19) (8063-209) (9368M57P20) (8063-214) (9368M57P21) For CFM56-3B-2: (8062-480) (9387M15P02) (8062-490) (9387M15P03) (8062-485) (9387M15P04) (8062-495) (9387M15P05) (8062-486) (9387M15P06) (8062-499) (9387M15P08) (8063-200) (9387M15P09) (8063-206) (9387M15P10) (8063-207) (9387M15P11) (8063-213) (9387M15P12) For CFM56-3C-1: (8063-205) (1459M27P04) (8063-210) (1459M27P05) (8063-215) (1459M27P06) (8063-217) (1459M27P07)	8063-215	WYG66082	B/C REP	

WORK ORDER: 2022-605 INCOMING( ) OUTGOING (X)	FAA CRS J9GR114O CFM56-3 MODELS QEC ACCESSORY INVENTORY	MODEL: CFM56- 3C1 ESN ___

1. Record part numbers and serial numbers. If part data plate is missing, state so in the Remarks block.
2. Each Item must be filled out (if applicable)

Abbreviations: N/R - Not Received N/A – Not Applicable N/I - Not Installed N/V- Not Visible
O/H – Overhaul B/C - Bench Check C/T - Continued Time INST- Installed

COMPONENT& TYPICAL PART NUMBER(S)	PART NUMBER	SERIAL NUMBER	CONDITION	REMARKS
Transfer Gearbox (335-300-003-0) (335-300-005-0) (335-300-008-0) (335-300-009-0) (335-300-010-0) (335-300-011-0) (335-300-012-0)	335-300-011-0	VB3765	INST	
Accessory Gearbox (335-300-103-0) (335-300-105-0) (335-300-106-0) (335-300-107-0) (335-300-108-0) (335-300-109-0) (335-300-110-0) (335-300-112-0)	335-300-112-0	WB9060	REP	MODIFIED PER SB 72-1129R7
Control Alternator / N2 Speed Sensor (44376) (9974M82P02) (44376-1) (9974M82P03)	44376-1	GJAHH008	INST	
Starter (3505716-3) (S332A001-9) (3505716-5) (S332A001-11) (3505716-6) (S332A001-12) (3505526-6-1) (S332A001-7) (3505526-1-1) (3505526-2-1) (3505526-3-1) (S332A001-3) (3505526-5-1) (S332A001-4) (3505526-7-1) (3505526-8-1) (3505526-9-1)	N/I	N/I	N/I	

WORK ORDER: 2022-605 INCOMING( ) OUTGOING (X)	FAA CRS J9GR114O CFM56-3 MODELS QEC ACCESSORY INVENTORY	MODEL: CFM56- 3C1 ESN: ___

1. Record part numbers and serial numbers. If part data plate is missing, state so in the Remarks block.
2. Each Item must be filled out (if applicable)

Abbreviations: N/R - Not Received N/A – Not Applicable N/I - Not Installed N/V- Not Visible
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COMPONENT& TYPICAL PART NUMBER(S)	PART NUMBER	SERIAL NUMBER	CONDITION	REMARKS
Starter Valve (3289630-1) (S332A002-1) (3289630-2) (S332A002-2) (3289630-3) (S332A002-3)	N/I	N/I	N/I	
Constant Speed Drive CSD (735511A) (10-61066-11)	N/I	N/I	N/I	
CSD QAD Ring (689460A) (10-60295-15)	689460A	16577	INST	
Generator (976J498-2) (10-61224-12)	N/I	N/I	N/I	
Main Hydraulic Pump Vickers Type: (623337) (10-61794-2) Abex Type: (66087) (10-62167-2) (55098-08) (10-60470-12)	N/I	N/I	N/I	System Type: ☐ Vickers ☐ Abex
CSD Oil Cooler (L8602419-1) (L8602419-2) (UA538551-2) (10-61233-11)	UA538551-2	5813R	INST	
Compressor Inlet Temperature Sensor / T25 CIT Sensor (8901-274) (9334M96P02)	8901-274	WYG95564	B/C	
Bleed Air Regulator (107492-1) (10-62008-10) (107492-2) (10-62008-23) (107492-3) (10-62008-37) (107492-5) (10-62008-40) (107492-6) (10-62008-41)	107492-6	1072C	INST	
High Stage Bleed Air Valve (3214446-2) (10-62008-17) (3214446-3) (10-62008-29) (3214446-4) (10-62008-32)	3214446-4	9906	INST	

WORK ORDER: 2022-605 INCOMING( ) OUTGOING (X)	FAA CRS J9GR114O CFM56-3 MODELS QEC ACCESSORY INVENTORY	MODEL: CFM56- 3C1 ESN _

1. Record part numbers and serial numbers. If part data plate is missing, state so in the Remarks block.
2. Each Item must be filled out (if applicable)

Abbreviations: N/R - Not Received N/A – Not Applicable N/I - Not Installed N/V- Not Visible
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COMPONENT& TYPICAL PART NUMBER(S)	PART NUMBER	SERIAL NUMBER	CONDITION	REMARKS
High Pressure Turbine Clearance Control Valve / HPTCCV (7061M31G01) (7061M31G02) (7061M31G03) (7061M31G04) (7061M31G05)	7061M31G05	GATBPN01E	OVH	
Pressure Regulating and Shut-Off Valve / PRSOV (3214552-4) (10-62008-21) (3214552-5) (10-62008-30) (3214552-6) (10-62008-43)	N/I	N/I	N/I	
Right Hand Variable Stator Vane Actuator / RH VSV Actuator (1211175-007) (9971M46P07) (1211175-010) (1457M11P01) (1211175-011) (1521M72P01) (1211175-017) (1521M72P04) (1211175-018) (1521M72P05)	1521M72P01	APMBT980	OVH	
Left Hand Variable Stator Vane Actuator / LH VSV Actuator (1211175-007) (9971M46P07) (1211175-010) (1457M11P01) (1211175-011) (1521M72P01) (1211175-017) (1521M72P04) (1211175-018) (1521M72P05)	1211175-011	APMBS078	B/C REP	
Pre-Cooler Control Valve (3289562-6) (10-62008-44) (3289562-5) (10-62008-33) (3289562-4) (10-62008-28) (3289562-3) (10-62008-20) (3289562-2) (10-62008-18) (10-62008-3)	N/I	N/I	N/I	

WORK ORDER: 2022-605 INCOMING( ) OUTGOING (X)	FAA CRS J9GR114O CFM56-3 MODELS QEC ACCESSORY INVENTORY	MODEL: CFM56- 3C1 ESN ___

1. Record part numbers and serial numbers. If part data plate is missing, state so in the Remarks block.
2. Each Item must be filled out (if applicable)

Abbreviations: N/R - Not Received N/A – Not Applicable N/I - Not Installed N/V- Not Visible
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COMPONENT& TYPICAL PART NUMBER(S)	PART NUMBER	SERIAL NUMBER	CONDITION	REMARKS
Start Bleed Valve Stage 5 (324495)	N/V	N/V	INST	
Bleed Air Check Valve (10-62008-1) (3202222-1)	N/V	N/V	INST	
VBV Fuel Gear motor (706400-2) (301-776-702-0) (706400-3) (301-776-703-0) (706400-4) (301-776-704-0)	706400-4	11625V	OVH	
Left Hand Cone Bolt (310A1041-1) (310A1041-2) (310A1041-5) (310A1041-7)	N/I	N/I	N/I	
Right Hand Cone Bolt (310A1041-1) (310A1041-2) (310A1041-5) (310A1041-7)	N/I	N/I	N/I	
Upper Fan Case Left Hand Engine Mount Assembly (310A1021-2)	310A1021-2	N/V	INST	
Upper Fan Case Right Hand Engine Mount Assembly (310A1021-1)	310A1021-1	N/V	INST	
FWD Left Hand Thrust Link Mount Fitting Assembly (310A1036-2) (310A1036-6)	310A1036-2	NSN	C/T	
FWD Right Thrust Link Mount Fitting Assembly (310A1036-1) (310A1036-5)	310A1036-2	NSN	C/T	
Thrust Fitting Assembly (310A1025-1)	N/I	N/I	N/I	

WORK ORDER: 2022-605 INCOMING( ) OUTGOING (X)	FAA CRS J9GR114O CFM56-3 MODELS QEC ACCESSORY INVENTORY	MODEL: CFM56- 3C1 ESN

1. Record part numbers and serial numbers. If part data plate is missing, state so in the Remarks block.
2. Each Item must be filled out (if applicable)

Abbreviations: N/R - Not Received N/A – Not Applicable N/I - Not Installed N/V- Not Visible
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COMPONENT& TYPICAL PART NUMBER(S)	PART NUMBER	SERIAL NUMBER	CONDITION	REMARKS
Thrust Fitting LH Link (310A1023-1)	N/I	N/I	N/I	
Thrust Fitting RH Link (310A1023-2)	N/I	N/I	N/I	
AFT Engine Mount Assembly (310A1020-11) (310A1020-14) (310A1020-21) (310A1020-22) (310A1020-26)	N/I	N/I	N/I	
Flame Arrestor (305-371-801-0) (305-371-802-0)	305-371-802-0	NSN	C/T	
Exhaust Sleeve Skirt Fairing	N/I	N/I	N/I	
Exhaust Sleeve	N/I	N/I	N/I	
Exhaust Plug	N/I	N/I	N/I	
EGT Wiring Harness (Nine Probes EGT Thermocouple Configuration)	N/V	N/V	INST	Number of Probes 9
EGT Wiring Harness (Six Probes EGT Thermocouple Configuration)	N/A	N/A	N/A	Number of Probes
Engine Stand			COLOR:	

DATE: MAY-17-2023