

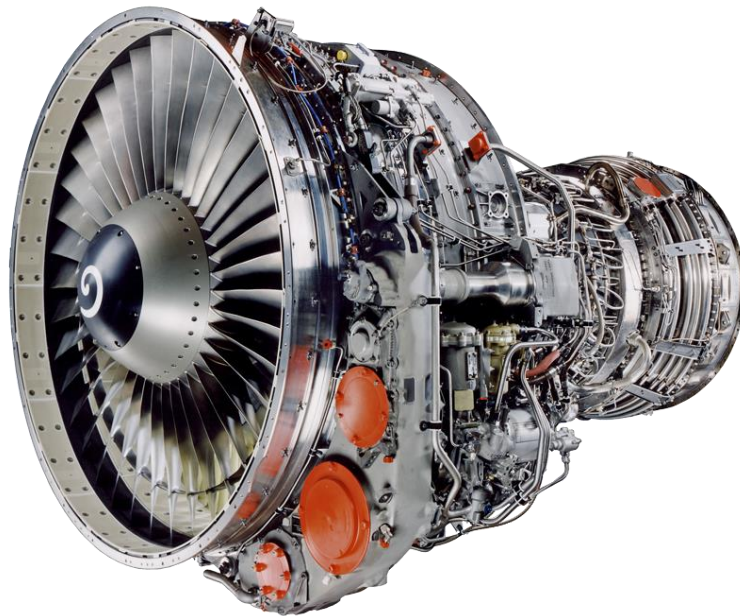


Engine Pertinent Records Package

CFM56-3C1

Engine S/N 721514

W/O: 5087C



FAA REPAIR STATION Q6GR293Y, EASA REPAIR STATION EASA.145.6500

14080 S.W. 143 Ct Miami, FL 33186, P:(305).254.0034, F: (305).254.0037



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FAA REPAIR STATION Q6GR293Y, EASA REPAIR STATION EASA.145.6500


14080 S.W. 143 Ct Miami, FL 33186, P:(305).254.0034, F: (305).254.0037



FAA FORM 337

FAA REPAIR STATION Q6GR293Y, EASA REPAIR STATION EASA.145.6500

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 MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance) <small>U.S. Department of Transportation Federal Aviation Administration</small>	Form Approved OMB No. 2120-0020 11/30/2007	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 <i>(As shown on registration certificate)</i>	Address <i>(As shown on registration certificate)</i>	
		Address _____ City _____ State _____ Zip _____ Country _____	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	_____	<i>(As described in item 1 above)</i>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	CFM INTERNATIONAL	CFM56-3C1	721514
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency
Name TURBINE ENGINE SOLUTIONS Address 14080 SW 143 COURT City MIAMI State FLORIDA Zip 33186 Country UNITED STATES OF AMERICA	<input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Certificated Maintenance Organization
	<input type="checkbox"/> Manufacturer C. Certificate No. Q6GR293Y

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 <input type="checkbox"/>	Signature/Date of Authorized Individual <div style="display: flex; justify-content: space-between;"> Martin Cordero 3/15/2023 </div>
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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	<input type="checkbox"/>	FAA Flt. Standards Inspector	<input type="checkbox"/>	Manufacturer	<input type="checkbox"/>	Maintenance Organization	<input type="checkbox"/>	Persons Approved by Canadian Department of Transport
	<input type="checkbox"/>	FAA Designee	<input checked="" type="checkbox"/>	Repair Station	<input type="checkbox"/>	Inspection Authorization	Other <i>(Specify)</i>	

Certificate or Designation No. Q6GR293Y	Signature/Date of Authorized Individual <div style="display: flex; justify-content: space-between;"> Martin Cordero 3/15/2023 </div>
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. 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: 5087C

MODEL: CFM56-3C1

ETT: 77,200.00

ENGINE SERIAL NUMBER: 721514

ETC: 49,908

Nationality and Registration Mark

Date

SUBJECT ENGINE WAS REMOVED FOR LLP REPLACEMENT; THE FOLLOWING WAS ACCOMPLISHED:

- I. **FAN MAJOR MODULE:** was removed and replaced with a serviceable condition unit.
- II. **FAN AND BOOSTER MODULE (ATA 72-00-21):** was removed and inspected in-situ.
 - i. Performed Fan Blade Lube and Mapping.
- III. **NO.1 AND NO 2 BRG MODULE (ATA 72-00-22):** was removed as a module, disassembled, cleaned, inspected, repaired, balanced, and assembled.
 - i. Replaced Fan Shaft with serviceable condition unit.
- IV. **HPC ROTOR MODULE (ATA 72-00-31):** was removed as a module, disassembled, cleaned, inspected, repaired, balanced, and assembled.
 - i. Removed and replaced damaged HPC blades on Stg's 3,5,6,7,8 and 9 with overhauled condition units.
 - ii. Removed and replaced HPC 1-2 Spool and HPC 4-9 Spool with overhauled units.
- V. **HPC FRONT STATOR ASSEMBLY (ATA: 72-00-32):** was removed as a module, partially disassembled, cleaned, inspected, repaired, and assembled.
 - i. Installed overhauled Stage's 1 thru 5 Honeycomb seals.
 - ii. Match grinded all honeycomb sections.
- VI. **HPC REAR STATOR (ATA: 72-33-00):** was removed as a module, disassembled, cleaned, inspected, repaired, and assembled.
 - i. Installed overhauled Stage's 6 thru 8 Honeycomb seals.
 - ii. Match grinded all honeycomb sections.
- VI. **COMBUSTION ASSY (ATA 72-41, -42):** was removed as a module, disassembled, cleaned, inspected, repaired, and assembled.
 - i. Installed FWD Inner Nozzle Support in overhauled condition.
 - ii. Installed overhauled Condition Combustion Chamber.
 - iii. Installed a set of Bench Checked Fuel Nozzles.
 - iv. Installed overhauled HPT Inner Stationary Seal
- VII. **HPT NOZZLE MODULE (ATA 72-00-51):** was removed and replaced with serviceable condition module.
 - i. Installed HPT Outer Stat. Seal in serviceable condition.
- VIII. **HPT ROTOR MODULE (ATA 72-00-52):** was removed, cleaned, inspected, assembled, balanced, and installed in serviceable condition.
 - i. Match grinded to J05 dimensions.

N/A Additional Sheet Are Attached

NOTICE

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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: 5087C

Nationality and Registration Mark

Date

MODEL: CFM56-3C1

ENGINE SERIAL NUMBER: 721514

ETT: 77,200.0

ETC: 49,908

- IX. HPT SHROUD AND STAGE 1 LPT NOZZLE ASSEMBLY (ATA 72-00-53):** Removed, partially disassembled, cleaned, inspected, assembled, and installed in serviceable condition.
- i. Removed and replaced Full set of HPT Shrouds with overhauled condition units.
 - ii. Matched Grind Shrouds to HPT Blades.
- X. LPT ROTOR MODULE (ATA 72-00-53):** Removed, disassembled, cleaned, inspected, assembled, and installed in serviceable condition.
- i. Removed and replaced LPT Stages 1 thru 4 Disk and Blade Assemblies and Conical Seal with serviceable condition units.
- VII. LPT SHAFT MODULE (ATA 72-00-54):** was removed and replaced with serviceable condition module.
- VIII. IGB MODULE (ATA 72-00-61):** was removed as a module, partially disassembled, cleaned, inspected, repaired, balanced, and assembled.
- IX. AGB MODULE (ATA 72-00-63):** was removed and replaced with serviceable condition unit (SB 72-1129).
- X. MAIN LINE BEARINGS:** was removed, cleaned, inspected and installed in serviceable condition.
- XI. ACCESSORIES:**
- i. Installed 5th STG Bleed Air valve in overhauled condition.
 - ii. Installed overhauled MEC.
 - iii. Installed bench checked Fuel Pump.
 - iv. T-2 Sensor was installed in overhauled condition.
 - v. CIT Sensor was inspected and tested.
 - vi. VSV Actuators was inspected and tested.
 - vii. Fuel Gear Motor was installed in repaired condition.
 - viii. TCC Valve was installed in overhauled condition.
 - ix. Flexible Shaft Assemblies were installed in new condition.
 - x. Master Ball screw Actuator was inspected and tested.
 - xi. Ball screw Actuator Assemblies was inspected and tested.
 - xii. T495 thermocouples wiring harness was inspected and tested.

ACCOMPLISHED TEST NO. 10 ON WING PER 71-00-00 PER BOEING B737 AIRCRAFT MANUAL & ON-WING 365 DAY PRESERVATION PER (AMM) MOST CURRENT REVISION AND FOUND ALL PARAMETERS TO BE WITHIN SERVICEABLE LIMITS. (ENGINE RUN WAS PERFORMED BY XTREME AVIATION LLC FAA CRS # 4XAR847C) POST MPA RUN BORESCOPE INSPECTION WAS COMPLETED BY TURBINE ENGINE SOLUTIONS, INC AND FOUND TO BE WITHIN ACCEPTABLE LIMITS.

THE AIRCRAFT ENGINE IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION AND IS APPROVED FOR RETURN TO SERVICE.

PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER WORK ORDER NO. 5087C.

N/A Additional Sheet Are Attached



LIFE LIMITED PARTS SHEET

FAA REPAIR STATION Q6GR293Y, EASA REPAIR STATION EASA.145.6500

14080 S.W. 143 Ct Miami, FL 33186, P:(305).254.0034, F: (305).254.0037



Life Limited Parts Time/Cycle Record

ENG. MODEL: CFM56-3C1
ENG. SERIAL NO.: 721514
TSN: 77,200.00
CSN: 49,908
WORK ORDER: 5087C
DATE:

NOMENCLATURE	PART NO.	SERIAL NO.	TOTAL HOURS	CAT A	CAT B	CAT C	CAT 2B	CAT A LIMIT	CAT B LIMIT	CAT C LIMIT	CAT 2B LIMIT	TOTAL CYCLES	CR CAT A	CR CAT B	CR CAT C	CR CAT 2B
FAN ROTOR MODULE																
BOOSTER SPOOL	335-009-306-0	BB960247	N/A	3,684	12,594	0	0	30,000	30,000	30,000		16,278	13,722	13,722	13,722	
FAN STG. 1 DISK	335-014-511-0	DC778206	N/A	3,684	12,594	0	0	30,000	24,900	20,100		16,278	11,142	9,248	7,465	
FWD FAN SHAFT	335-006-414-0	DC330838	N/A	10,475	6,287	0	0	30,000	30,000	30,000		16,762	13,238	13,238	13,238	
HPC ROTOR MODULE																
HPC FRONT SHAFT	1275M37P02	GWNOJCFE	N/A	2	9,851	0		20,000	20,000	20,000		9,853	10,147	10,147	10,147	
HPC SPOOL 1-2	1589M66G02	GWNOH628	N/A	0	0	4533		20,000	20,000	20,000		4,533	15,467	15,467	15,467	
HPC STG. 3 DISK	1590M59P01	XAEL8348	N/A	2	9,851	0		20,000	20,000	20,000		9,853	10,147	10,147	10,147	
HPC SPOOL 4 - 9	1277M97G02	GWNE1421	N/A	0	0	0	12926	20,000	20,000	15,800	18,400	0	5,950	5,950	4,700	
HPC SEAL - CDP	1319M25P02	GFF5ED0L	N/A	2	9,851	0		20,000	18,000	15,000	16,800	9,853	9,052	8,147	6,789	
HPT ROTOR MODULE																
HPT FWD SHAFT	1385M90P04	XAEL9056	N/A	0	9,920	1		20,000	17,300	17,000		9,921	8,530	7,378	7,251	
HPT FWD AIR SEAL	1282M72P05	XAEJ5733	N/A	0	11,248	1		20,000	15,800	15,100		11,249	5,760	4,550	4,349	
HPT DISK	1475M29P02	XAEL6172	N/A	0	4,285	1		20,000	18,500	16,600		4,286	15,366	14,213	12,754	
HPT REAR SHAFT	1864M91P02	TMT2B786	N/A	0	9,920	1		20,000	20,000	20,000		9,921	10,079	10,079	10,079	
LPT MAJOR MODULE																
LPT STG. 1 DISK	301-331-126-0	PA241874	N/A	4,245	11,238	0		25,000	25,000	25,000		15,483	9,517	9,517	9,517	
LPT STG. 2 DISK	301-331-227-0	PA218603	N/A	4,245	11,238	0		25,000	25,000	25,000		15,483	9,517	9,517	9,517	
LPT STG. 3 DISK	301-331-322-0	BC349338	N/A	20,027	0	0		25,000	25,000	25,000		20,027	4,973	4,973	4,973	
LPT STG. 4 DISK	301-331-429-0	PA205349	N/A	4,245	11,238	0		25,000	25,000	25,000		15,483	9,517	9,517	9,517	
LPT CONICAL SEAL	305-056-116-0	DC548344	N/A	20,027	0	0		25,000	25,000	25,000		20,027	4,973	4,973	4,973	
LPT SHAFT	301-330-067-0	LA089182	N/A	3,460	14,960	0		30,000	30,000	30,000		18,420	11,580	11,580	11,580	
LPT STUB SHAFT	301-330-626-0	DB693804	N/A	3,460	14,960	0		25,000	25,000	25,000		18,420	6,580	6,580	6,580	

The above data was obtained from engine records supplied by the previous owners, repair agencies and operators of the engine.

Notes: * Denotes replaced disks at this shop visit.

Form: TESI 1039C

DRAFT

Approved by: _____

8-Feb-2023

Date: _____



NON-INCIDENT

FAA REPAIR STATION Q6GR293Y, EASA REPAIR STATION EASA.145.6500

14080 S.W. 143 Ct Miami, FL 33186, P:(305).254.0034, F: (305).254.0037



16 August 2019

STATEMENT FOR ENGINE NON-ACCIDENTS/INCIDENTS

TO WHOM IT MAY CONCERN:

This certifies that the product identified below has never been in any accident/incidents while operated by NewGen Airways from the delivery until present. The data aircraft has been maintained in accordance with the NewGen Airways approved maintenance program and also have not had unapproved parts installed on any component part.

Product : Engine
Manufacturer : CFM International
Model : CFM56-3B2
Serial No. : 721514

New

New Overhauled

Used

Mr. Pichest Issara

Quality Assurance Engineering Manager

Technical Department

NewGen Airways.

Thailand.