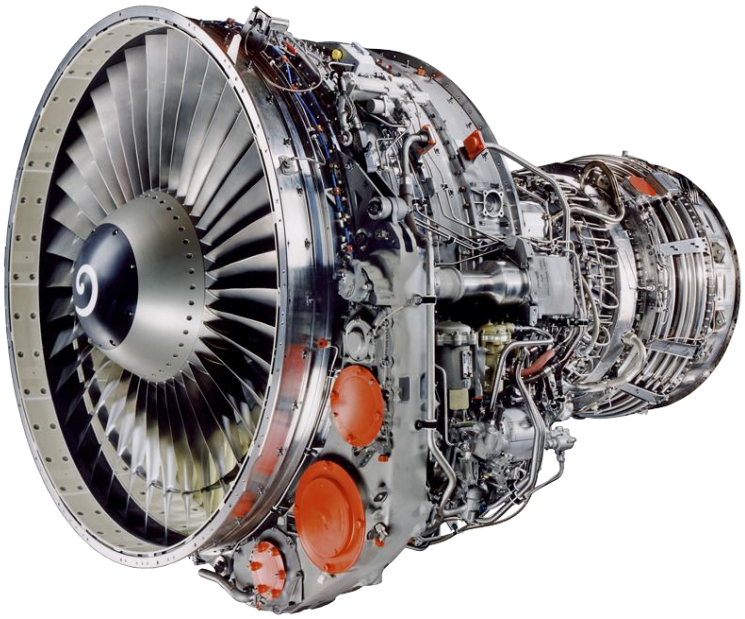
Engine Pertinent Records Package

CFM56-3B2

Engine S/N 725167
W/O: 5089C



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 FORM 337

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

U.S. Department of Transporation
Federal Aviation Administration

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

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 *(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	CFM56-3B2	725167
☐	☐	PROPELLER			
☐	☐	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 UNTIED STATES OF AMERICA	☐	U.S. Certificated Mechanic	☐	Manufacturer
	☐	Foreign Certificated Mechanic	C. Certificate No.	
	☒	Certificated Repair Station	**Q6GR293Y**	
	☐	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
☐	Martin Cordero 3/15/2023

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.	Signature/Date of Authorized Individual
Q6GR293Y	Martin Cordero 3/15/2023

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.)

Nationality and Registration Mark		Date	

WORK ORDER: 5089C
MODEL: CFM56-3B2 **ENGINE SERIAL NUMBER: 725167**
ETT: 71,103.0 **ETC: 42,437**

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

I. **FAN AND BOOSTER MODULE (ATA 72-00-21):** was removed and inspected in-situ.

II. **NO.1 AND NO 2 BRG MODULE (ATA 72-00-22):** was removed as a module, partially disassembled, cleaned, inspected, repaired, balanced, and assembled.

III. **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 FR Shaft, 1-2 Spool, 4-9 Spool with overhauled units.

IV. **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.

V. **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, partially disassembled, cleaned, inspected, assembled, balanced and installed in serviceable condition.

i. Removed and replaced HPT Rear Shaft and HPT FWD Airseal with overhauled condition units.
ii. Installed set of serviceable condition HPT blades.
iii. Match grinded to J05 dimensions.

N/A☒ Additional Sheet Are Attached

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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.)

Nationality and Registration Mark Date

WORK ORDER: 5089C
MODEL: CFM56-3B2 ENGINE SERIAL NUMBER: 725167
ETT: 71,103.0 ETC: 42,437

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 MAJOR MODULE (ATA 72-00-03): was removed, inspected, balanced, and installed in serviceable condition.

XI. TURBINE FRAME MODULE (ATA 72-00-56): Removed and replaced with serviceable condition module.

VI. IGB MODULE (ATA 72-00-61): was removed as a module, partially disassembled, cleaned, inspected, repaired, balanced, and assembled.

XII. AGB MODULE (ATA 72-00-63): was removed and replaced with serviceable condition unit (SB 72-1129).

IX. MAIN LINE BEARINGS: was removed, cleaned, inspected and installed in serviceable condition.

XIII. 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. 5089C

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:	CFM56-3B2
ENG. SERIAL NO.:	725167
TSN:	71,103.00
CSN:	42,437
WORK ORDER:	5089C
DATE:	

NOMENCLATURE	PART NO.	SERIAL NO.	TOTAL HOURS	CAT A	CAT B	CAT C	CAT 2C	CAT A LIMIT	CAT B LIMIT	CAT C LIMIT	CAT 2C LIMIT	TOTAL CYCLES	CR CAT A	CR CAT B	CR CAT C	CR CAT 2B	ESN TRACE
FAN ROTOR MODULE																	
BOOSTER SPOOL	335-009-306-0	BC076702	N/A	16,106	0	0	0	30,000	30,000	30,000		16,106	13,894	13,894	13,894		725512
FAN STG. 1 DISK	335-014-511-0	DC095245	N/A	9,041	12,947	0	0	30,000	24,900	20,100		21,988	5,360	4,448	3,591		725512
FWD FAN SHAFT	335-006-414-0	DB687841	N/A	4,249	15,101	1	0	30,000	30,000	30,000		19,351	10,649	10,649	10,649		725105
HPC ROTOR MODULE																	
HPC FRONT SHAFT	1275M37P02	GWN0A13G	N/A	11,202	4,285	0		20,000	20,000	20,000		15,487	4,513	4,513	4,513		ORIGINAL
HPC SPOOL 1-2	1589M66G02	GWNTG315	N/A	0	4,065	12164		20,000	20,000	20,000		16,229	3,771	3,771	3,771		725685
HPC STG. 3 DISK	1590M59P01	XAEG1542	N/A	11,517	4,285	0		20,000	20,000	20,000		15,802	4,198	4,198	4,198		ORIGINAL
HPC SPOOL 4 - 9	1590M29G01	GWNFK613	N/A	15,172	0	0	0	20,000	20,000	15,800	18,400	15,172	4,828	4,828	3,814		856817
HPC SEAL - CDP	1319M25P02	GFF5EET1	N/A	836	7,279	4750		20,000	18,000	15,000	16,800	12,865	4,742	4,268	3,557		725685
HPT ROTOR MODULE																	
HPT FWD SHAFT	1385M90P04	XAE78715	N/A	11,202	4,285	0		20,000	17,300	17,000		15,487	3,844	3,325	3,267		ORIGINAL
HPT FWD AIR SEAL	1282M72P05	XAE34160	N/A	15,389	0	0		20,000	15,800	15,100		15,389	4,611	3,642	3,481		725353
HPT DISK	1475M29P03	GWN0F52H	N/A	10,509	5,258	0		20,000	18,500	16,600		15,767	3,806	3,521	3,159		857346
HPT REAR SHAFT	1864M91P02	TMT1EM36	N/A	13,718	2,957	0		20,000	20,000	20,000		16,675	3,325	3,325	3,325		752212
LPT MAJOR MODULE																	
LPT STG. 1 DISK	301-331-126-0	BB334690	N/A	3,665	17,410	0		25,000	25,000	25,000		21,075	3,925	3,925	3,925		ORIGINAL
LPT STG. 2 DISK	301-331-227-0	BC576163	N/A	10,486	4,285	0		25,000	25,000	25,000		14,771	10,229	10,229	10,229		ORIGINAL
LPT STG. 3 DISK	301-331-322-0	BA624872	N/A	5,173	16,186	0		25,000	25,000	25,000		21,359	3,641	3,641	3,641		ORIGINAL
LPT STG. 4 DISK	301-331-427-0	DA480650	N/A	5,173	16,186	0		25,000	25,000	25,000		21,359	3,641	3,641	3,641		ORIGINAL
LPT CONICAL SEAL	305-056-116-0	BC572837	N/A	10,486	4,285	0		25,000	25,000	25,000		14,771	10,229	10,229	10,229		ORIGINAL
LPT SHAFT	301-330-066-0	DC849685	N/A	2	11,693	0		30,000	30,000	30,000		11,695	18,305	18,305	18,305		ORIGINAL
LPT STUB SHAFT	301-330-626-0	BC722306	N/A	2	11,693	0		25,000	25,000	25,000		11,695	13,305	13,305	13,305		ORIGINAL

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.*

DRAFT

Form: TESI 1039C

Approved by:

Date

Turbine. Engine Solutions
powered by
POWERHOUSE CAPITAL

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.	: 725167

New ☐ New Overhauled ☐ Used ■

Mr. Pichest Issara

Quality Assurance Engineering Manager

Technical Department

NewGen Airways.

Thailand.

222 Room 2337 Floor 2 Donmueang International Airport, Terminal 1, Viphavadeerangsit Road, Don Mueang Bangkok 10210
Tel: 662-159 0920-2 Fax: 662-159 0923 info@newgenairways.com , www.newgenairways.com