



GE CELMA

CUSTOMER	ENGINE MODEL	S/N	WORK ORDER NO.
USA 3000	CFM56-5B4/P	575476	2011320568

1. RELEASE CERTIFICATES



US Department
Of Transportation
Federal Aviation
Administration

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

Form Approved
OMB No. 2120-0020

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 _____

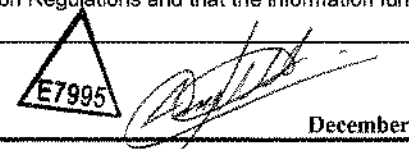
3. for FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input type="checkbox"/>	AIR FRAME	_____	(As described in item 1 above)	_____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	CFM International	CFM56-5B4/P	575476
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacture		

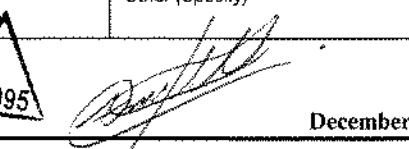
6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name <u>GE CELMA LTDA</u>		<input type="checkbox"/> U.S. Certified Mechanic	<input type="checkbox"/> Manufacturer
Address <u>356 ALICE HERVÉ STREET</u>		<input type="checkbox"/> Foreign Certified Mechanic	C. Certificate No.
City <u>PETROPOLIS</u> State <u>R.J.</u>		<input checked="" type="checkbox"/> Certified Repair Station	EM4Y159M
Zip <u>25669-900</u> Country <u>BRAZIL</u>		<input type="checkbox"/> Certified 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 <input type="checkbox"/>	Signature/Date of Authorized Individual Anderson Campbell (Reg. 7995)  December 08, 2011
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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 <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport	
	FAA Designee <input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	Other (Specify)	
Certificate or Designation No. EM4Y159M		Signature/Date of Authorized Individual Anderson Campbell (Reg. 7995)  December 08, 2011			

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

ENGINE MODEL: CFM56-5B4/P **S/N:** 575476 **HSN:** 27550 **CSN:** 10242

Engine was repaired, inspected and tested in accordance with CFMI CFM56-5B Engine Shop Manual CFMI-TP.SM.9 revision 58 dated of Sep 15, 2011.

<u>Nomenclature</u>	<u>S/N</u>	<u>Work Accomplished</u>
Fan Booster	21X75476	Level 2
No.1/No.2 Brg Supp.	22X75476	Level 1
Fan Frame	23X75476	Level 2
Inlet Gearbox	61X75476	Level 2
Hpc Rotor	31X75476	Level 3
Hpc Fwd Stator	32X75476	Level 3
Hpc Rear Stator	33X75476	Level 3
Combustor Case	41X75476	Level 3
Combustion Chmb.	GGM8WAKD	Level 3
Hpt Nozzle	51X75476	Level 3
Hpt Rotor	52X75476	Level 3
Hpt Shroud	53X75476	Level 3
Lpt Rotor/Stator	54X75476	Level 1
Lpt Shaft	55X75476	Level 1
Lpt Frame	56X75476	Level 1
TGB	VJ3689	Level 1
AGB	63X75476	Level 1

Airworthiness Directives Complied With At This Shop Visit:

2007-06-05.




This Engine is limited to operate no more than 14758 cycles at 27,000 lbs takeoff thrust due to LPT Stg 1 Disk P/N 336-001-804-0 S/N BB831683.

Threshold Inspection is 14758 cycles per P/N of Turbine Rear Frame installed: P/N 338-171-751-0 S/N LA095922.

Details are on file at this facility under W/O: 2011320568

☐ Additional Sheets Are Attached

1. Approving National Aviation Authority/Country: FAA/United States		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: 320568/2011	
4. Organization Name and Address: <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> GE Celma RUA ALICE HERVÊ, 356 - PETRÓPOLIS - RJ - CEP 25669-900 - BRASIL TEL.: 55(24)-2233-4000 - FAX: 55(24)-2237-3684 </div> <div style="text-align: right; flex-grow: 1;"> EM4Y159M </div> </div>						5. Work Order/ Contract / Invoice Number: WO: 2011320568	
6. Item:	7. Description:	8. Part Number:	9. Eligibility: *	10. Quantity:	11. Serial/ Batch Number:	12. Status/Work:	
01	ENGINE -- CFM56-5B4/P	1887M10G01	N/A	01	575476	REPAIRED	
13. Remarks: <p>HSN: 27550 CSN: 10242</p> <p>Engine was repaired, inspected and tested accordance with CFMI CFM56-5B Engine Shop Manual CFMI-TP.SM.9 revision 58 dated of Sep 15, 2011.</p>							
14. Certifies the items identified above were manufactured in conformity to: <input type="checkbox"/> Approved design data and are in a condition for safe operation. <input type="checkbox"/> Non-approved design data specified in Block 13.			19. <input checked="" type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 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.				
15. Authorized Signature:		16. Approval/ Authorization No.:		20. Authorized Signature:		21. Approval/Certificate No.: EM4Y159M	
17. Name (Typed or Printed):		18. Date (m/d/y):		22. Name (Typed or Printed): Anderson Campbell (Reg. 7995)		23. Date (m/d/y): December 08, 2011	
User/Installer Responsibilities							
<p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.</p> <p>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 parts/components/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Block 14 and 19 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.</p>							

1. Approving Competent Authority / Country EASA		2. AUTHORIZED RELEASE CERTIFICATE EASA FORM 1			3. Form Tracking Number 320568/2011	
4. Organisation Name and Address  GE CELMA Ltda			RUA ALICE HERVE, 356 - PETRÓPOLIS - RJ CEP 25669-900 - BRASIL TEL.: 55-(24)-2233-4000 - FAX: 55-(24)-2237-3684		5 - Work Order/Contract /Invoice 2011320568	
6. Item	7. Description	8. Part No.	9. Qty	10. Serial No.	11. Status/Work	
01	ENGINE – CFM56-5B4/P	1887M10G01	01	575476	REPAIRED	
12. Remarks HSN: 27550 CSN: 10242 Engine was repaired, inspected and tested accordance with CFMI CFM56-5B Engine Shop Manual CFMI-TP.SM.9 revision 58 dated of Sep 15, 2011. Engine was tested on GE Celma Filial Ltda - 1862 Canárias St - Ilha do Governador - Rio de Janeiro - Brasil.						
13a. Certifies that the items identified above were manufactured in conformity to: <input type="checkbox"/> approved design data and are in condition for safe operation <input type="checkbox"/> non-approved design data specified in block 12			14a. <input checked="" type="checkbox"/> Part 145.A.50 Release to Service <input type="checkbox"/> Other Regulation 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 Part 145 and in respect to that work the items are considered ready for release to service.			
13b. Authorised Signature		13c. Approval / Authorisation Number		14b. Authorised Signature  		14c. Certificate/Approval Ref. No. EASA.145.0065
13d. Name		13e. Date: (dd mm yyyy)		14d. Name Anderson Campbell (Reg. 7995)		14e. Date: (dd mm yyyy) 08 December, 2011
USER/INSTALLER RESPONSIBILITIES This certificate does not automatically constitute authority to install the item(s). Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the airworthiness authority specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts items from the airworthiness authority 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						