



US Department
of Transportation
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 _____	
	City		Zip _____ Country _____	
	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	_____	(As described in Item 1 above)	_____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	POWERPLANT	Pratt & Whitney	JT8D-15	700833
<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 <u>Turbine Engine Solutions, Inc</u>		U. S. Certificated Mechanic	
Address <u>13570 SW 129th Street</u>		Manufacturer	
City <u>Miami</u> State <u>Florida</u>		Foreign Certificated Mechanic	
Zip <u>33186</u> Country <u>USA</u>		C. Certificate No.	
		<input checked="" type="checkbox"/> Certificated Repair Station	
		<input type="checkbox"/> Certificated Maintenance Organization	
		Q6GR293Y	
		Limited Powerplant	

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 Gustavo Codina, Q.C. Director 3/24/2009
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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	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/>	Repair Station	

Certificate or Designation No. Q6GR293Y	Signature/Date of Authorized Individual Gustavo Codina, Q.C. Director 3/24/2009
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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.)

Nationality and Registration Mark

3/24/2009

Date

Customer: Commercial Turbine Services
Engine Serial Number: 700833 JT8D-15 WO: 1234
Engine Total Time: 32,340.0 TSHSI: 0
Engine Total Cycles: 21,316 CSHSI: 0
Reason For Shop Visit: SB6431 & HOT SECTION.

01. Performed receiving, ASB5913 Torque Check and video Borescope Inspections.

02. N-1 Compressor Module:

The module was partially disassembled, cleaned, inspected and repaired as required.

Fan Inlet Case P/N: 537131, S/N: 1920, was visually inspected and pressure tested. #1 Bearing, P/N: 633766, S/N: N745, visually inspected.

All related parts were visually inspected and repaired as required. First Stage Compressor Ret. Plate P/N: 808145, S/N: A1184, installed per AD 89-25-11. The following disk was installed: 4th Stage Disk P/N: 799504, S/N: BBDUAT3285. Applicable rotor components were static balanced, reassembled and dynamic balanced. Module was reassembled.

AD 2003-05-07 C/W.

03. Intermediate Case Module:

The module was disassembled at this shop visit, cleaned, inspected and repaired as required. Compressor Intermediate Case Assembly P/N: 662620-001, SN: CK4187, was visually and dimensionally inspected. A Leak Check was performed. All related parts were visually inspected as required. Module was reassembled.

04. High Pressure Compressor Module:

The N-2 module was disassembled at this shop visit, cleaned, inspected and repaired as required.

Rotor components reworked or replaced as necessary; static balance, reassembled and dynamic balanced.

Complied with AD 2003-12-07 IAW ASB 6431 R1. AD 2005-25-05 C/W on C-13 Disk, P/N: 5003613-01, S/N: BBDUAP9878.

Complied with AD 2006-17-07 IAW ASB 6430/6468.

The following disks were replaced at this shop visit:

C-9 Disk, P/N: 822109, S/N: BENCA3636, TT: 0, TC: 0, NEW & C-8 Disk, P/N: 787208-001, S/N: BENCAM9850.

All the blades, spacers and stators installed were O/H. Module was reassembled.

05. Diffuser Case Module:

The module was partially disassembled at this shop visit, cleaned, inspected and repaired as required. Module was reassembled.

06. Hot Section Module:

The module was partially disassembled at this shop visit, cleaned, inspected and repaired as required.

Hot Section Inspection accomplished. AD 96-23-14 & AD 98-04-39 C/W on C.C.O.C. P/N: 767197, S/N: LP6306.

Overhauled Combustion Chambers CAT 2A installed: P/N: 780853, 7 ea. & P/N: 780854, 2ea.

Complied with AD 86-09-02 R2 IAW ASB 5639 R10.

T-1 Nozzle Guide Vanes P/N: 798771 were installed in Overhauled Condition.

First Stage Turbine Outer Airseal P/N: M2355, S/N: C7369, was O/H; Combustion Chamber Inner Outlet Duct P/N: 735883-003 & Outer Outlet Duct P/N: 674764-003, were O/H & SB5801 C/W. All related parts were inspected as required.

Fuel Nozzles were visually inspected and flow/calibration tested.

Module was reassembled.

07. High Pressure Turbine Module:

The module assembly was partially disassembled, cleaned, inspected and repaired as required. Module was reassembled and dynamic balanced.

Additional Sheets 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.)

	3/24/2009
Nationality and Registration Mark	Date

Customer: Commercial Turbine Services
Engine Serial Number: 700833, JT8D-15, WO: 1234

08. Low Pressure Turbine Module:

The module assembly was partially disassembled, cleaned, inspected and repaired as required.
All the T-4 blades P/N: 629704 installed were O/H. T-4 Disk static balanced, reassembled and dynamic balanced.
T-4 Disk, P/N: 769104, S/N: BLDLB10135 was O/H inspected (AD 2005-25-05 C/W). All other rotor components not disassembled, were dynamic balanced. Module was reassembled.
ASB5913 Torque Check performed; Refer to TESI form 1002, Rev.3, WO:1234, reinspect within 2000 hours or 2000 cycles.

09. Exhaust Case Module:

The module assembly was partially disassembled, cleaned, inspected and repaired as required. Module was reassembled.

10. Main Accessory Gearbox Module:

The accessory gearbox assembly, P/N: 717000, S/N: HT9054, was visually inspected, leak checked and functionally tested with the engine.

11. Accessories:

All the accessories were functionally tested with the engine.
AD 2000-22-06 C/W - Pump P/N: 378201-12, S/N: 4361 - Reinspect within 6000 hours.
Refer to TESI form 2033, WO:1234 for accessories installed.

12. The engine was reassembled and a test cell run was performed IAW P&W JT8D E/M, Ref. 72-00-00, Testing 07, Test No.3, O/H Acceptance and Performance Test. All engine parameters were acceptable and approved. Fuel and Oil system were preserved for 90 days plus, IAW: P&W JT8D E/M, Ref. 72-00-00, Servicing 03 and 04.

13. A post-test video Borescope Inspection and an outgoing ASB 5913 Torque Check was performed.

- Note: a) All the work was performed in accordance with: PWA E/M: 481672, Rev:166, 10/15/2008
 b) Refer to TESI form 1037 Rev.4, WO:1234, for complete engine AD Status and S/B compliance.
 c) Refer to TESI form 1039 Rev.3, WO:1234, for Disks Times and Cycles.
 d) Original paperwork will be shipped with the engine. A copy is on file at Turbine Engine Solutions, Inc. under: WO:1234.

Additional Sheets Are Attached