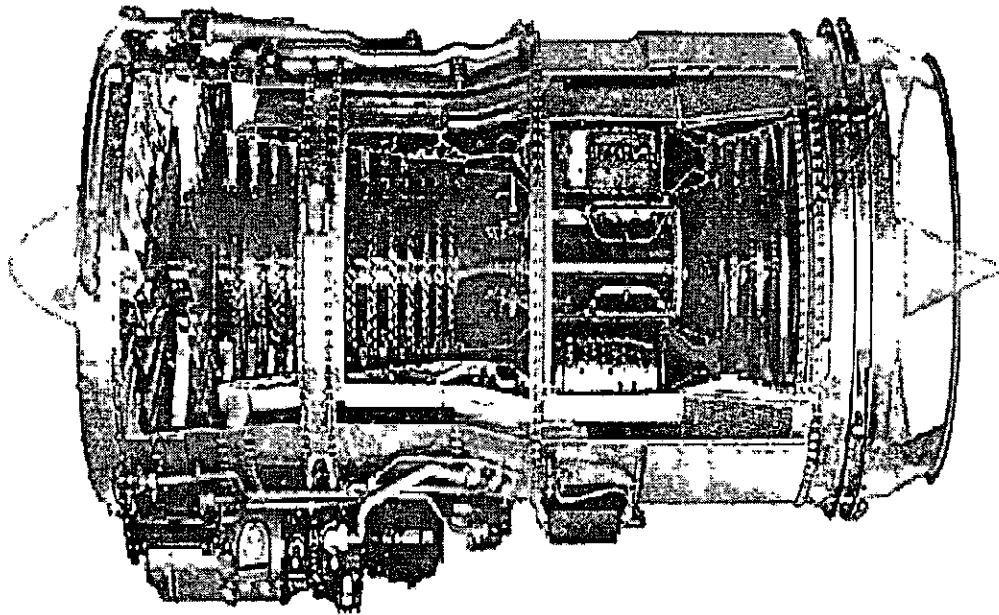


TURBINE ENGINE CENTER, INC.
8050 NW 90th STREET MEDLEY, FLORIDA 33166
FAA REPAIR STATION No. ZT9R445X

ENGINE PERTINENT RECORDS PACKAGE

JT8D-219

***ENGINE S/N 725926
W/O 80342***



ORIGINALS

TURBINE ENGINE CENTER, INC.
8050 NW 90th STREET MEDLEY, FLORIDA 33166
FAA REPAIR STATION No. ZT9R445X

Dear Valued Customer:

We at Turbine Engine Center, Inc. Thank you, our valued customer, for inducting an engine to this repair facility.

It is our policy and sincere desire to meet or exceed your expectations. We hope that you are satisfied with our efforts and assure you that our quality processes are continually improving in order to meet your needs.

If you experience a situation with our product whereas your satisfaction comes into question, please do not hesitate to inform us so that we may take immediate corrective/preventive action.

Once again, thank you for your business and we look forward to future business endeavors.

Renzo Cabrera



Chief Inspector
Turbine Engine Center, Inc.
8050 NW 90th Street
Medley, FL 33166
Office: (305) 477-7771
Fax: (305) 477-7779
Mobile: (305) 898-1301
E-mail: renzoc@turbineengine.aero

TURBINE ENGINE CENTER, INC.
8050 NW 90th STREET MEDLEY, FLORIDA 33166
FAA REPAIR STATION No. ZT9R445X

FAA Form 337



U.S. 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 <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 <i>(As described in item 1 above)</i> | Serial No. |
| <input type="checkbox"/> | <input type="checkbox"/> | AIRFRAME | _____ | _____ | _____ |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | POWERPLANT | Pratt & Whitney | JT8D-219 | 725926 |
| <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 Name <u>TURBINE ENGINE CENTER, INC.</u> Address <u>8050 NW 90th Street</u> City <u>Medley</u> State <u>FLORIDA</u> Zip <u>33166</u> Country <u>UNITED STATES OF AMERICA</u> | B. Kind of Agency <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 <input type="checkbox"/> Certificate No. | C. Certificate No. <u>ZT9R445X</u> Limited Powerplant Limited Airframe |
|--|--|---|--|

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 <u>Richard Gonzalez - Director of Maintenance</u> <u>JUL 06 2011</u> |
|--|--|

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. <u>ZT9R445X</u> Limited Powerplant Limited Airframe | Signature/Date of Authorized Individual <u>Renzo Cabrera - Chief Inspector</u> <u>JUL 06 2011</u> |
|---|---|

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: 80342

Model: JT8D-219

Engine Serial Number: 725926

ETT: 33,111.64

ETC: 36,452

Nationality and Registration Mark

Date

Subject engine was received to replace damage in the Turbine Nozzle Area. The following is a summary of the work accomplished.

- The Fan Inlet Section was not removed. Visually inspected accessible areas.
- The Low Compressor Section was not removed. Visually inspected accessible areas.
- The Intermediate Case was not removed. Visually inspected accessible areas. Installed overhaul 5ea 8th Stage Bleed Valve
- The High Compressor Section was disassembled, cleaned, inspected, repaired, assembled, and balanced. Installed serviceable original C-7 through C-13 Disk/Blades Assemblies.
- The Diffuser Section was disassembled, cleaned, inspected, repaired, and assembled. Installed overhaul 1ea 13th Stage Bleed Valve.
- The Combustion Section was disassembled, cleaned, inspected, repaired, and assembled. Installed serviceable Outer Combustion Case, Combustion Cans, Combustion Chamber Rear Support, and set of T-1 Vanes class 28.99.
- The High Pressure Turbine was partially disassembled, cleaned, inspected, repaired, assembled, and balanced
- The Low Pressure Turbine was disassembled, cleaned, inspected, repaired, assembled, and balanced. Installed serviceable T-2 Disk/Shaft/Blades Assembly, T-3 and T-4 Disk/Blades Assemblies.
- The Exhaust Case was cleaned and visually inspected accessible areas.
- The following Main Line Bearings were replaced: No. 4, No. 4½, and No. 5.
- The Gearbox was not removed. Inspected in-situ.
- All pertinent Airworthiness Directives were reviewed and were found to be current at this visit. The following ones were accomplished this visit.

1. 2005-21-01 (Installed oil temperature indicators on No. 4 to No. 5 Scavenge Tube)

2. 2011-07-02 (Installation of new LPT-to-Exhaust Case Bolts, Spacers, and Nuts)

- The following Service Bulletins were embodied at this visit:

1. A5944R5 (Installed oil temperature indicators on No. 4 to No. 5 Scavenge Tube)

2. 6494R1 (Installation of new LPT-to-Exhaust Case Bolts, Spacers, and Nuts)

Subject engine was repaired, tested and found to be serviceable in accordance with Pratt & Whitney Engine Manual P/N 773128 Revision 94 dated April 15, 2011. All pertinent details of the above are on file at this Repair Station under W.O.#80342

N/A Additional Sheet Are Attached

TURBINE ENGINE CENTER, INC.
8050 NW 90th STREET MEDLEY, FLORIDA 33166
FAA REPAIR STATION No. ZT9R445X

FAA Form 8130-3

1. Approving National Aviation Authority / Country
 FAA / UNITED STATES

2. **AUTHORIZED RELEASE CERTIFICATE**
 FAA 8130-3 AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
 80342

4. ORGANIZATION
 Turbine Engine Center, Inc. 8050 NW 90th Street Medley, FL 33166

5. Work Order / Contractor / Invoice Number
 FAA REPAIR STATION No: ZT9R445X
 ESN 725926-219

| 6. Item | 7. Description | 8. Part No. | 9. Eligibility | 10. Quantity | 11. Serial / Batch Number | 12. Status / Work |
|---------|--------------------|-------------|----------------|--------------|---------------------------|-------------------|
| 1 | Turbine Fan Engine | JT8D-219 | TBA | 1 | 725926 | INSPECTED |

13. Remarks:
 Subject Engine was disassembled, cleaned, inspected, repaired, assembled, & tested IAW Pratt & Whitney JT8D/EM 773128 R94, dated April 15, 2011.
 All A.D.'s were reviewed and found to be current. The following A.D.'s were incorporated this visit: 2005-21-01 and 2011-07-02.
 The following S.B.'s were incorporated this visit: A5944R5 and 6494R1.

ET: 33T11.64 ETC: 36,452 (TIMES AND CYCLES SUPPLIED BY CUSTOMER) (Refer to FAA Form 337 for Details)

Turbine Engine Center certifies that the work specified in block 12 /13 was carried out in accordance with EASA 145 and in respect to that work the aircraft component is considered ready for release to service under EASA Part 145 Approval Certificate # EASA 145.6302.

14. Certifies the items identified above were manufactured in conformity to:

NA Approved Design data and are in a condition for safe operation
 NA Non- Approved Design data specified in Block # 13.

19. Yes 14 CFR 43.9 Return to Service Yes Other regulation specified in block # 13

20. 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: N/A

16. Approval/Authorization No. N/A

17. Name (Typed or printed): N/A

18. Date (m/d/y): N/A

22. Name (typed or printed): Renzo Cabrera

21. Certificate Number: ZT9R445X

23. Date (m/d/y): JUL 06 2011

User / Installer Responsibility

It is important to understand that the existence of this document alone does not automatically constitute authority to install part/component/ assembly.

Where the user/installer performs work in accordance with the national regulation 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 part/component/assembly from the airworthiness authority of the country specified in Block 1.

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

FAA 8130-3 (6-01) *Installer must cross check eligibility with applicable technical data. NSN: 0052-00-012-9005

TURBINE ENGINE CENTER, INC.
8050 NW 90th STREET MEDLEY, FLORIDA 33166
FAA REPAIR STATION No. ZT9R445X

Life Limited Parts Summary

Turbine Engine Center, Inc

Repair Station No. ZT9R445X

8050 NW 90th STREET
 Medley, Florida 33166
 Phone: 305-477-7771

| | | | |
|--------------------|-----------------------|---------------------|----------|
| Customer | Americistar Air Cargo | Engine Model | JT8D-219 |
| Engine S.N. | 725926 | Work Order | 80342 |

| | |
|----------------------------|----------|
| Engine Total Time | 33,111.6 |
| Engine Total Cycles | 36,452 |

| Received Disks | | | | | | | | | | Installed Disks | | | | | | | | | |
|----------------|-------------|---------------|------------|--------------|------------|-------------|-----------------|------------------|------------------|-----------------|---------------|------------|--------------|------------|------------|-----------------|------------------|------------------|--|
| STG | Part Number | Serial Number | Hour Limit | Cycles Limit | Hours Used | Cycles Used | Hours Remaining | Cycles Remaining | Removed From ESN | Part Number | Serial Number | Hour Limit | Cycles Limit | Hours Used | Cycle Used | Hours Remaining | Cycles Remaining | Removed From ESN | |
| C1 | 5000501-01 | T51222 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | 5000501-01 | T51222 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | |
| C1.5 | 800015 | TS0414 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | 800015 | TS0414 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | |
| C2 | 772402 | BBDUAS3329 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | 772402 | BBDUAS3329 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | |
| C3 | 772803 | BBDUAR9962 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | 772803 | BBDUAR9962 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | |
| C4 | 777704 | BBDUASS303 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | 777704 | BBDUASS303 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | |
| C5 | 802105 | BBDUAP4535 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | 802105 | BBDUAP4535 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | |
| C6 | 772806 | BBDUAS1941 | N/A | 20,000 | Unknown | 14,671 | N/A | 5,329 | Original | 772806 | BBDUAS1941 | N/A | 20,000 | Unknown | 14,671 | N/A | 5,329 | Original | |
| C7 | 822107 | BENCALJ3559 | N/A | 20,000 | Unknown | 13,802 | N/A | 6,198 | Original | 822107 | BENCALJ3559 | N/A | 20,000 | Unknown | 13,802 | N/A | 6,198 | Original | |
| C8 | 797938-002 | BENCAM2446 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | 797938-002 | BENCAM2446 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | |
| C9 | 798509-001 | BENCANI088 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | 798509-001 | BENCANI088 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | |
| C10 | 772510-001 | BENCAN3287 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | 772510-001 | BENCAN3287 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | |
| C11 | 772511-001 | BENCAN2014 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | 772511-001 | BENCAN2014 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | |
| C12 | 798512-001 | BENCAN2305 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | 798512-001 | BENCAN2305 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | |
| C13 | 5005613-01 | BENCAM1906 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | 5005613-01 | BENCAM1906 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | |
| T1 | 855701 | BKLBBD0565 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | 855701 | BKLBBD0565 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | |
| T2 | 778702 | BLDLA33599 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | 778702 | BLDLA33599 | N/A | 20,000 | Unknown | 14,445 | N/A | 5,555 | Original | |
| T3 | 777603 | BLDLB00571 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | 777603 | BLDLB00571 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | |
| T4 | 800804 | BLDLDA0435 | N/A | 20,000 | Unknown | 5,170 | N/A | 14,830 | Original | 800804 | BLDLDA0435 | N/A | 20,000 | Unknown | 5,170 | N/A | 14,830 | Original | |

| Received Shaft | | | | | | | | | | Installed Shaft | | | | | | | | | |
|----------------|-------------|---------------|------------|-------------|------------|-------------|-----------------|------------------|------------------|-----------------|---------------|------------|--------------|------------|------------|-----------------|------------------|------------------|--|
| SHF | Part Number | Serial Number | Hour Limit | Cycle Limit | Hours Used | Cycles Used | Hours Remaining | Cycles Remaining | Removed From ESN | Part Number | Serial Number | Hour Limit | Cycles Limit | Hours Used | Cycle Used | Hours Remaining | Cycles Remaining | Removed From ESN | |
| HPT | 5000947-01 | BKLB96319 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | 5000947-01 | BKLB96319 | N/A | 20,000 | Unknown | 14,693 | N/A | 5,307 | Original | |
| LPT | 820514-001 | BLDLCB7126 | N/A | 16,760 | Unknown | 11,930 | N/A | 4,830 | Original | 820514-001 | BLDLCB7126 | N/A | 16,760 | Unknown | 11,930 | N/A | 4,830 | Original | |

Remarks

Above information was supplied by customer.
 S.B. 5019 reference for LPT Shaft.

Renzo Cabrera
Chief Inspector

JUL 06 2011

Date

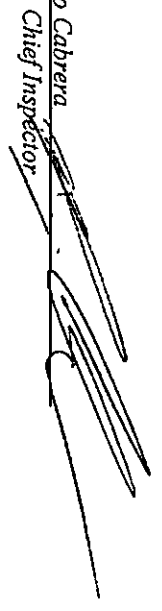
Turbine Engine Center, Inc.
FAA ZT9R445X
 8050 NW 90th STREET MEDLEY, FLORIDA 33166 PHONE (305) 477-7771 FAX (305) 477-7779
 JT8D AIRWORTHINESS DIRECTIVE COMPLIANCE STATUS

WORK ORDER: 80342 ENGINE MODEL: JT8D-219 ENGINE S/N: 725926 TT: 33,111.64 TC: 36,452
 CUSTOMER: Ameristar Air Cargo

Note: With regards to this document, the following definitions apply:
 CW = Complied with at this shop visit.
 PCW = Previously Complied With -- Received with upgraded configuration
 ND = Not Disassembled per Customer Specifications
 NAI = Not Applicable Due to Engine Model
 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 | PWA SERVICE BULLETIN | DESCRIPTION | REPETITIVE INSPECTION | | COMPLIANCE STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST. |
|--------------------------------|--------------------------------|--|-----------------------|----|---|
| | | | YES | NO | |
| 80-15-51 39-3898 8/21/80 | A5154 R3 | Ultrasonic Inspect or FPI Inspect 8 th stage Disk P/N 690908, 701308, 717608, 717708, and 738308 for cracks. Applies to: JT8D-1, 1A, 1B, 5, 7, 7A, 7B, 9, 9A, 11, 15, 17, 17R, 209, and 209A. | | X | NA3: to JT8D-219. |
| 87-03-13 | 5618 | Replace 5 th Stage Compressor Blades P/N 778505. Applies to: JT8D-209, 217, and 217A. | | X | NA3: to JT8D-219. |
| 88-04-02 | 5711 R5 5751 R3 A5753 R4 | Radiographic Isotope Inspect LPT Cases which do not incorporate New Anti-Rotation pins made of INCOL-901. Applies to: JT8D-209, 217, 217A, 217C, and 219. | | X | NA3: to P/N 808158-003 S/N VS9458 installed. |
| 91-24-14 39-8101 1/12/92 | | Inspect 4 1/2 Seal Spacer P/N 525961. Applies to: JT8D-1, 1A, 1B, 5, 7, 7A, 7B, 9, 9A, 11, 15, 15A, 17, 17A, 17R, 17AR, 209, 217, 217A, 217C, and 219. | | X | PCW: verified this visit to P/N 525961 S/N NSN. Rockwell Harness C-36. |
| 93-23-10 | A6053R7 | Superseded by AD 99-22-14 | | | Superseded by AD 99-22-14 |
| 94-14-16 | | Superseded by AD 95-02-16 | | | Superseded by AD 95-02-16 |
| 94-23-03 | | Superseded by AD 97-19-13 | | | Superseded by AD 97-19-13 |

REVIEWED BY: Renzo Cabrera
 Chief Inspector



DATE: JUL 06 2011

Turbine Engine Center, Inc.
FAA ZT9R445X
 8050 NW 90th STREET MEDLEY, FLORIDA 33166 PHONE (305) 477-7771 FAX (305) 477-7779
 JT8D AIRWORTHINESS DIRECTIVE COMPLIANCE STATUS

WORK ORDER: 80342 CUSTOMER: Ameristar Air Cargo
 ENGINE MODEL: JT8D-219 ENGINE S/N: 725926 TT: 33,111.64 TC: 36,452

| AD NUMBER | PWA SERVICE BULLETIN | DESCRIPTION | REPETITIVE INSPECTION YES | NO | COMPLIANCE STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST. |
|--------------------------------|--|--|---------------------------|----|---|
| 95-02-16 39-9135 2/21/95 | A6153 R2 A6169 R5 A6170 R2 6240 A6310 R3 A6311 R2 | Replace No. 7 Fuel Nozzle & Support Assemblies P/N 775485, 809137-1, 802965, and 5004308-02 with P/N 814358 or P/N 5004308-32 per A6311 R2. Replace aluminum pressure and scavenge oil tubes fittings with STEEL fittings per A 6170 R2. Applies All JT8D series engine models that have incorporated SB 5650-Low Emission Fuel Nozzles. | | X | PCW: terminated action previously accomplished. Verified this visit. Ref: Avianca's AD Status. |
| 96-12-19 | | Superseded by AD 96-23-15 | | | Superseded by AD 96-23-15 |
| 96-15-06 | | Remove from service all affected first stage fan hubs, P/N 5000501-01, identified by the following Serial Numbers must be replace with serviceable parts: T50693, T50823, T50827, R32926, R32960, and P66756. | | X | N44: to P/N 5000501-01 SN T51222 installed. Ref: Avianca's LLP Status. |
| 96-23-15 | | Superseded by AD 99-10-11 | | | Superseded by AD 99-10-11 |
| 97-02-11 | | Superseded by AD 97-17-04 | | | Superseded by AD 97-17-04 |
| 97-17-04 | A6272 R1 | To prevent fan hub failure due to tiered, counterweight, or bushed hole cracking, which could result in an uncontained engine failure for P/N 5000501-01 serial numbers listed I.A.W. A6272 R1. | | X | PCW: to P/N 5000501-01 SN T51222 installed. Re-inspect at or before ETC 41,282. Or at the next piece part disassembly. Ref: Avianca's AD Status. |
| 97-19-13 | A5944 R4 | Applies to: JT8D-209, 217, 217A, 217C, and 219. Superseded by AD 2005-21-01 | | | Superseded by AD 2005-21-01 |

REVIEWED BY: Renzo Cabrera
 Chief Inspector

DATE: JUL 06 2011

Turbine Engine Center, Inc.
FAA ZT9R445X
 8050 NW 90th STREET MEDLEY, FLORIDA 33166 PHONE (305) 477-7771 FAX (305) 477-7779
 JT8D AIRWORTHINESS DIRECTIVE COMPLIANCE STATUS

WORK ORDER: 80342 ENGINE MODEL: JT8D-219 ENGINE SN: 725926 TT: 33,111.64 TC: 36,452
 CUSTOMER: Ameristar Air Cargo

| A.D. NUMBER | EFF. DATE | PWA SERVICE BULLETIN | DESCRIPTION | REPETITIVE INSPECTION | COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST. |
|----------------------------------|-----------|----------------------|---|-----------------------|---|
| | | | | YES NO | |
| 98-21-24 39-10832 11/16/98 | | | Inspection or replacement of Ni-cad coated C-3, C-4, and C-7 through C-12 compressor discs listed in Table 1 of the A.D. by P/N and S/N. Return affected disks to GE. Applies to: JT8D-1, 1A, 1B, 5, 7, 7A, 7B, 9, 9A, 11, 15, 15A, 17, 17A, 17R, 17AR, 209, 217, 217A, 217C, and 219. Remove and scrap C-7 through C-12 Disks (JT8D HPC) listed in Appendix 1 of AD by P/N and S/N with <500 TIS since Ni-cad plating or by schedule 2(a) (1) thru (4). Disks with >500 TIS since Ni-cad plating require no action. Applies to: JT8D-1, 1A, 1B, 5, 7, 7A, 7B, 9, 9A, 11, 15, 15A, 17, 17A, 17R, 17AR, 209, 217, 217A, 217C, and 219. | X | NA3 & NA4: to P/N's & S/N's installed. Ref: Avianca's LLP & AD Status. |
| 99-01-08 | | | Replace or modify C-1 Blades I.A.W. A.S.B. 6193 R3 with the following Part Numbers 798821, 798821-001, 808121, 808121-001, 809221, 811821, 851121, 851121-001, 5000021-02, 5000021-022, and 5000021-032. Applies to: JT8D-209, 217, 217A, 217C, and 219. | X | NA3 & NA4: to P/N's & S/N's installed. Ref: Avianca's LLP & AD Status. |
| 99-12-04 | | | Superseded by AD 2000-21-07 | | Superseded by AD 2000-21-07 |
| 99-22-14 | | | Superseded by AD 2004-26-04 | | Superseded by AD 2004-26-04 |
| 99-26-06 | | | Superseded by AD 2002-16-08 | | Superseded by AD 2002-16-08 |
| 99-27-01 | | | Superseded by AD 2005-02-03 | | Superseded by AD 2005-02-03 |
| 2000-21-07 | | | Superseded by AD 2002-13-09 | | Superseded by AD 2002-13-09 |
| 2002-13-09 | | | Superseded by AD 2005-18-02 | | Superseded by AD 2005-18-02 |

REVIEWED BY: Renzo Cabrera
 Chief Inspector

DATE: JUL 06 2011

Turbine Engine Center, Inc.
FAA ZT9R445X
 8050 NW 90th STREET MEDLEY, FLORIDA 33166 PHONE (305) 477-7771 FAX (305) 477-7779
 JT8D AIRWORTHINESS DIRECTIVE COMPLIANCE STATUS

WORK ORDER: 80342 ENGINE MODEL: JT8D-219 ENGINE S/N: 725926 TT: 33,111.64 TC: 36,452
 CUSTOMER: Ameristar Air Cargo

| A.D. NUMBER | PWA SERVICE BULLETIN | DESCRIPTION | REPETITIVE INSPECTION | COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST. |
|-------------|-------------------------------|--|-----------------------|--|
| EFF. DATE | | | YES NO | |
| 2002-16-08 | A6359 R3 | Inspect combustion chamber outer cases with the following part numbers 500023801, 797707, 807684, and 815830. Applies to: JT8D-209, 217, 217A, 217C, and 219. | X | NA3: to P/N 815556 S/N BJNBAL4690 installed. |
| 2002-21-17 | 6100 R2 | Install stops on the fan exit guide vane case in accordance with Service Bulletin 6100 R2. Or Install fan exit guide vane case, part number P/N 805919 or 815377 and fan duct assembly P/N 805918-01. Applies to: JT8D-209, 217, 217A, 217C, and 219. | X | PCW: terminated action previously accomplished. Verified this visit. Ref: Avianca's AD Status. |
| 2002-23-14 | | Superseded by AD 2006-17-07 R1 | | Superseded by AD 2006-17-07 R1 |
| 2003-16-05 | 6427R2 A6430R2 A6435 R1 | HPC disc corrosion inspection, stages C-7 through C-12. Owner/operators are responsible for tracking status and utilization. Applies to: JT8D-209, 217, 217A, 217C, and 219. | X | PCW: Re-inspect at or before August 15, 2017. Ref: Avianca's AD Status. |
| 2004-26-04 | A6346 R4 | Install the improved HPT containment hardware. Accomplishment Instructions of PW Alert Service Bulletin A6346 R3. Applies to: JT8D-209, 217, 217A, 217C, and 219. | X | PCW: terminated action previously accomplished. Verified this visit. Ref: Avianca's AD Status. |
| 2005-02-03 | | Superseded by AD 2006-17-07 R1 | | Superseded by AD 2006-17-07 R1 |
| 2005-17-16 | A6442 | The purpose of this A.D. is to provide serial numbers of rotating parts overhauled by CADMAR that need to be overhauled or removed from service. Applies to: JT8D-1, 1A, 1B, 5, 7, 7A, 7B, 9, 9A, 11, 15, 15A, 17, 17A, 17R, 17AR, 209, 217, 217A, 217C, and 219. | X | NA3 & NA4: to P/N's & S/N's installed. Ref: Avianca's LLP & AD Status. |
| 2005-18-02 | | Superseded By AD 2011-04-04 | | Superseded By AD 2011-04-04 |

REVIEWED BY: Renzo Cabrera
 Chief Inspector

DATE: JUL 06 2011

Turbine Engine Center, Inc.
FAA ZT9R445X
 8050 NW 90th STREET MEDLEY, FLORIDA 33166 PHONE (305) 477-7771 FAX (305) 477-7779
 JT8D AIRWORTHINESS DIRECTIVE COMPLIANCE STATUS

WORK ORDER: 80342 CUSTOMER: Ameristar Air Cargo
 ENGINE MODEL: JT8D-219 ENGINE S/N: 725926 TT: 33,111.64 TC: 36,452

| A.D. NUMBER EFF. DATE | PWA SERVICE BULLETIN | DESCRIPTION | REPETITIVE INSPECTION YES | REPETITIVE NO | COMPLIANCE, STATUS, NEXT INSPECTION, PART NUMBERS / SERIAL NUMBERS INST. |
|---------------------------|----------------------|---|---------------------------|---------------|---|
| 2005-21-01 | A5944R5 | Install and or inspect two dual temperature indicators, part number (P/N) 810486 on the No. 4 and 5 bearing compartment scavenge oil tube. Applies to: JT8D-209, 217, 217A, 217C, and 219. | X | | CW: re-inspect within 65 hours. |
| 2006-17-07 R1 | A6430R2 | Strip the protective coating, visually inspect for fretting wear, fluorescent magnetic particle inspect, re-identify and re-plate HPC front hubs and the stage 8-9 spacers, and replace if necessary in accordance with Service Bulletin A6430. Applies to: All Models | | X | PCW: terminated action previously accomplished. Verified this visit. Ref: Avianca's AD Status. |
| 2011-04-04 | | Perform enhanced inspection of selected life limited parts: CI Hub, CI3 Disk, HP Turbine (Rotor or Disk), T2 Disk, T3 Disk, & T4 Disk. Applies to: JT8D-209, 217, 217A, 217C, and 219. | X | | ND: not disassembled. Comply at next shop visit. |
| 2011-07-02 Apr/28/2011 | A6224R6 | Perform torque inspection of 3rd and 4th stage LPT blades for shroud notch wear. Use the procedures described in Alert Service Bulletin JT8D A6224 R6. Applies to: JT8D-209, 217, 217A, 217C, and 219. | X | | PCW: Re-inspect at or before ETT 33,417. Ref: Avianca's AD Status. |
| | 6494R1 | Replacement of all LPT-to-Exhaust Case Bolts with P/N MS95557-26, all LPT-to-Exhaust Case Nuts with P/N's 375095 or 490270 (Steel Trimdur), and installation of Sleeve Spacers P/N 822903. Applies to: JT8D-209, 217, 217A, 217C, and 219. | | X | CW: Terminated action accomplish at this visit. |

REVIEWED BY: Renzo Cabrera
 Chief Inspector



DATE: JUL 06 2011

TURBINE ENGINE CENTER, INC.
8050 NW 90th STREET MEDLEY, FLORIDA 33166
FAA REPAIR STATION No. ZT9R445X

Test Cell Data

TIMCO Engine Center, Inc.
Powerplant Test Cell Results

RUN DATE: 3/17/2011 ENGINE SERIAL NO.: 133214 SERVICE ORDER: 101092
 ENGINE MODEL: 219 MEASURED WT/GAL. RAW FUEL: 6.82 SFC OR FUEL: 0.14923

R2 SPEED 5 R2
 STAMPED ON DATA PLATE: 11115 96.77

| BLEED VALVE | R1 % | R1 RPM | AMB TEMP | R2 % | R2 RPM | R2 TEMP | R3 % | R3 RPM | R3 TEMP |
|-------------|-------|--------|----------|------|--------|---------|-------|--------|---------|
| CRACK | 41.28 | 4198 | 74.0 | -1.0 | 21.28 | 21.0 | 21.08 | | |
| OPEN | 31.21 | 4210 | 74.0 | -1.4 | 22.28 | 22.0 | 74.11 | | |

ACTUAL TIME IDLE TO 99% R2: 6.6 SECONDS
 OIL LEVEL: 14.00 14.0 78 AMB TEMP 78 800 F

| TIME | START OF TEST | END OF TEST | RUN TIME | OIL CONSUMED (QUARTS) |
|-------|---------------|-------------|----------|-----------------------|
| 14:20 | 14.0 | 14.0 | 01:45 | 6.8 |

PEAK VIBE FRONT: 1.41 MIL 8123 FUEL DE-ICE ONE FUEL USED 637
 PEAK VIBE REAR: 2.66 MIL 7103 OK
 ROLL DOWN R2: 1.97 MIL 1.48 ARTI-ICE ONE OIL USED 1.8
 OK

NOTE: ALL VIBRATION INDICATORS ARE IN DOUBLE AMPLITUDE.
 Maintenance Note
 Performed #3 Test Cell run, all parameters within limits.

TIMCO Engine Center, Inc.
Powerplant Test Cell Results

| PARAMETER | LOWER LIMIT | UPPER LIMIT | TESTED | MARGIN | ENGINE SERIAL NO. | 725718 | SERVICE ORDER# | 185001 |
|---------------------------|-------------|-------------|----------|---------|---------------------------|--------|----------------|------------|
| CAL. BAUD SPEED | 11818 | 11844 | 11871 | 41 | MEASURED WT/CAL RUN FUEL: | 6.80 | SPEC OR FUEL: | 0.818233 |
| TAKE OFF EST. | | GUIDE | 545 | 1.080 C | POWER SETTING | 0.545 | MAX T/O | In NO 3.66 |
| | | | | | TAKE OFF: | 0.547 | BAUD B | 0.40 |
| | | | | | BAUD B | 0.556 | BAUD C | 0.40 |
| | | | | | BAUD C | 0.559 | | |
| GROUND IDLE #2 | 6890 | | REVERSE | THRUST | FT2 | | | |
| APPROACH IDLE #1 | 7980 | | BAUD E | 21171 | 28.4 | -3.6 | | |
| RUN INCREASE | 1296 | | | | | | | |
| DOWN T/O | 21173 lbm | | | | | | | |
| RESERVE T/O | 21943 lbm | | | | | | | |
| INCREASE | 1188 lbm | | | | | | | |
| SUMMARY OF CONNECTED DATA | | | | | | | | |
| POWER SETTING | BAUD B | MAX T/O | TAKE OFF | BAUD C | CAL BAUD | | | |
| 841/P85 | 1.49 | 2.39 | 3.48 | 1.71 | 1.85 | | | |
| 842/P85 | 1.49 | 2.39 | 3.48 | 1.71 | 1.85 | | | |
| CONNECTED N1 | 7311 | 8174 | 7884 | 6853 | 6787 | | | |
| CONNECTED N2 | 21499 | 13908 | 12705 | 11747 | 11076 | | | |
| CONNECTED #1 | 3926 | 12671 | 11004 | 8248 | 7505 | | | |
| CONNECTED #2 | 18034 | 22341 | 21173 | 16482 | 14867 | | | |
| CONNECTED ROT | 970 | 1051 | 1013 | 908 | 886 | | | |
| 843/P84 | 4.354 | 6.245 | 6.245 | 6.245 | 6.245 | | | |
| 844/P84 | 4.371 | 6.262 | 6.262 | 6.262 | 6.262 | | | |
| 845/P83 | 6.131 | 7.984 | 6.428 | 5.428 | 5.305 | | | |
| 846/P83 | 16.424 | 19.478 | 17.982 | 16.331 | 32.489 | | | |
| 847/P83 | 16.554 | 19.637 | 18.106 | 16.448 | 32.890 | | | |
| 848/P83 | 2.615 | 2.614 | 2.653 | 2.547 | 2.544 | | | |

TIMCO

JT8D BORESCOPE EVENT RECORD

Form No.: EG-0008
Date: 02/17/06TIMCO ENGINE CENTER, INC.
Repair Station No. T48R384Y

CUSTOMER NAME: TURBINE ENGINE CENTER, INC WORK ORDER: 105001
MODEL NUMBER: JT8D- 219 DATE: 7-2-11
ENGINE SERIAL NUMBER: 725926
EVENT VIDEOTAPED? YES POST TEST CELL

INSTRUCTION:

1. BORESCOPE ENGINE I.A.W. PRATT & WHITNEY MANUAL.
2. RECORD THE RESULTS OF THE INSPECTION IN THE SPACES PROVIDED.
3. DESCRIBE ANY UNUSUAL EVENTS IN THE SPACES PROVIDED. OTHERWISE, USE STANDARD BORESCOPE PROCEDURES.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| F | C | N | D | D | C | E | T |
| O | R | I | E | I | O | R | O |
| D | A | C | N | S | R | O | R |
| | C | K | T | T | O | | N |
| | R | E | E | O | D | | |
| | A | D | D | R | E | | |
| | K | | | T | D | | |
| | E | | | E | | | |

NOSE CONE CONDITION? REMARKS? N/A

TEC-QA
34

| NOMENCLATURE | DESCRIBE | F | C | N | D | D | C | E | T |
|--------------------------------|-----------------|---|---|---|---|---|---|---|---|
| INLET CASE ASSY | OK | | | | | | | | |
| 1 ST STAGE FAN | OK | | | | | | | | |
| 1 ST STAGE STATOR | LIMITED VIEW OK | | | | | | | | |
| 2 ND STAGE FAN | NOT VIEWED | | | | | | | | |
| 6 TH STAGE BLADES | OK | | | | | | | | |
| 7 TH STAGE BLADES | OK | | | | | | | | |
| 13 TH STAGE BLADES | OK | | | | | | | | |
| 13 TH STAGE NOZZLES | LIMITED VIEW OK | | | | | | | | |
| HPT NOZZLES | LIMITED VIEW OK | | | | | | | | |
| HPT LEADING EDGE | OK | | | | | | | | |
| HPT TRAILING EDGE | OK | | | | | | | | |
| LPT STAGE 2 LEADING EDGE | OK | | | | | | | | |

FUEL NOZZLE CONDITION: NOT VIEWED

TRANSITION DUCT: LIMITED VIEW OK

COMMENTS: OK

INSPECTOR: IVAN W. WAGNER STAMP: TEC-QA DATE: 7-2-11
34

**TURBINE ENGINE CENTER, INC
 FAA REPAIR STATION No. ZT9R445X
 QEC ACCESSORY INVENTORY**

Model: JT8D-219

Receiving

Date: July/12/2011

ESN: 725926

Shipping

WO: 80342

1. Record part number and serial number.
2. Stamp each item recorded in "Insp" column.
3. Each item must be completed.
4. Acceptable abbreviations: NA (Not Applicable), NR (Not Received)
 SNA (Serial # Assigned)- used as a prefix

Engine Accessories

| Item | Nomenclature | Part # | Serial # | In Insp | Out Insp | Comments if any changes |
|------|-------------------------------------|---------------|------------|---------|----------------|-------------------------|
| *1. | Fuel Control | 769606-15 | F3818 | X | TEC MECH 24 | |
| *2. | Fuel Pump Assembly/Detail | 384301-10-8-9 | 9450 | X | TEC MECH 24 | |
| *3. | Fuel Press Diff Switch | Not Visible | 1390 | X | TEC MECH 24 | |
| *4. | Fuel Heater | 745608 | AR594E | X | TEC MECH 24 | |
| *5. | Fuel Oil Cooler | 741824 | BWJPAA0047 | X | TEC MECH 24 | |
| *6. | Pressure Ratio Bleed Control (PRBC) | 790312 | 6750632 | X | TEC MECH 24 | |
| *7 | Pressure Ratio Bleed Control (PRBC) | 805373 | 6151033 | X | TEC MECH 24 | |
| *8 | P & D Valve | 766342 | 6156103 | X | TEC MECH 24 | |
| *9 | Ignition Exciter 1 | 9045000-1 | BSGCAM6773 | X | TEC MECH 24 | |
| *10 | Ignition Exciter 2 | 4999 | 5222M | X | TEC MECH 24 | |
| *11 | Oil Tank | 565016 | 9101 | X | TEC MECH 24 | |
| *12 | Anti-Ice Valve RH | 320115 | 4049 | X | TEC MECH 24 | |
| *13 | Anti-Ice Valve LH | 320115 | 27630 | X | TEC MECH 24 | |
| *14 | Fuel De-Icing Valve | 320115 | 25802 | X | TEC MECH 24 | |
| *15 | Nose Cowl Anti-Ice Valve | NR | NR | X | TEC MECH 24 | Not received |

TURBINE ENGINE CENTER, INC
FAA REPAIR STATION No. ZT9R445X
QEC ACCESSORY INVENTORY

Model: JT8D-219

ESN: 725926

WO: 80342

Receiving

Date: July/12/2011

Shipping

| Item | Nomenclature | Part # | Serial # | In Insp | Out Insp | Comments | if any changes |
|-----------------------------------|--------------------------------------|------------|----------|---------|-----------------------|--------------|----------------|
| Engine Accessories (cont.) | | | | | | | |
| *16 | Start Bleed Control Valve | 5000047-01 | UG0B872 | X | TEC MECH 24 | | |
| *17 | Gearbox | 779150 | WS7092 | X | TEC MECH 24 | | |
| QEC Accessories | | | | | | | |
| #1 | Tach N1 | NR | NR | X | TEC MECH 24 | Not Received | |
| #2 | Tach N2 | NR | NR | X | TEC MECH 24 | Not Received | |
| #3 | Engine Starter | NR | NR | X | TEC MECH 24 | Not Received | |
| #4 | CSD Oil Cooler CSD Heat Exchanger | NR | NR | X | TEC MECH 24 | Not Received | |
| #5 | Engine Starter Control Valve | NR | NR | X | TEC MECH 24 | Not Received | |
| #6 | CSD Unit | NR | NR | X | TEC MECH 24 | Not Received | |
| #7 | Hydraulic Pump | NR | NR | X | TEC MECH 24 | Not Received | |
| #8 | Generator Assembly | NR | NR | X | TEC MECH 24 | Not Received | |
| #9 | Fuel Flow Transmitter | NR | NR | X | TEC MECH 24 | Not Received | |
| #10 | Nose Cowl Anti-Ice Valve | NR | NR | X | TEC MECH 24 | Not Received | |
| #11 | CSD Anti-Ice Valve | NR | NR | X | TEC MECH 24 | Not Received | |
| #12 | Oil Quantity Transmitter | NR | NR | X | TEC MECH 24 | Not Received | |
| #13 | Oil Temperature Sensor | NR | NR | X | TEC MECH 24 | Not Received | |

TURBINE ENGINE CENTER, INC
FAA REPAIR STATION No. ZT9R445X
QEC ACCESSORY INVENTORY

Model: JT8D-219

ESN: 725926

WO: 80342

Receiving

Date: July/12/2011

Shipping

| Item | Nomenclature | Part # | Serial # | In Insp | Out Insp | Comments if any changes |
|--------------------------------|----------------------------------|-------------|-------------|---------|----------------|-------------------------|
| QEC Accessories (cont.) | | | | | | |
| #14 | FRT Vibration Pick-Up | NR | NR | X | TEC MECH 24 | Not Received |
| #15 | Rear Vibration Pick-Up | NR | NR | X | TEC MECH 24 | Not Received |
| #16 | Oil Pressure Transmitter | NR | NR | X | TEC MECH 24 | Not Received |
| #17 | Oil Differential Pressure Switch | NR | NR | X | TEC MECH 24 | Not Received |
| #18 | Low Oil Pressure Warning Switch | NR | NR | X | TEC MECH 24 | Not Received |
| #19 | Nose Cowl Assembly | NR | NR | X | TEC MECH 24 | Not Received |
| #20 | Nose Cone Assembly | NR | NR | X | TEC MECH 24 | Not Received |
| #21 | Thrust Reverser Assembly | NR | NR | X | TEC MECH 24 | Not Received |
| #22 | Forward Cone Bolts | NR | NR | X | TEC MECH 24 | Not Received |
| #23 | Rear Cone Bolts | Not Visible | Not Visible | X | TEC MECH 24 | |
| #24 | Exhaust Cone Assembly | Not Visible | Not Visible | X | TEC MECH 24 | |

ADDITIONAL COMMENTS

Engine Stand : PW264 Green