

DOCKET NO.: SA-515

**NATIONAL TRANSPORTATION SAFETY BOARD
WASHINGTON, D.C.**

MAINTENANCE GROUP CHAIRMAN'S FACTURAL REPORT

ATTACHMENT 7

**DELTA AIR LINES JT8D-219
ENGINE SHOP VISIT MAINTENANCE PROGRAM
AND RELATED SIGN-OFF SHEETS
(8 PAGES)**

DELTA AIR LINES, INC.

JT8D-219 ENGINE SHOP VISIT MAINTENANCE PROGRAM

ITEM	INSPECTION REQUIREMENTS	ENGINE MANUAL REFERENCE
Blades-Compressor Stages 1.5, 2, 3, 4, 5, & 6	Visually inspect and check chords at each exposure. Visual, dimensional and NDT inspect at each blade set restoration.	72-33-22 72-33-23 72-33-24 72-33-25 72-33-26 72-33-27 N1
Front Compressor Front Hub	Visually inspect when blade sets are removed. Dimensional, and NDT and shotpeen blade slots if CSR exceeds 7,000 cycles	72-33-31 N1
Stage 1.5 compressor Disk	Visually inspect at each exposure and NDT when blade sets are removed.	72-33-32 N1
Second Stage Compressor Disk	Visually inspect at each exposure and NDT when blade sets are removed.	72-33-33 N1
Third Stage Compressor Disk	Visually inspect at each exposure and NDT when blade sets are removed.	72-33-34 N1
Front Compressor Rear Hub and Stage 4 Disk	Visually inspect at each exposure and NDT when blade sets are removed.	72-33-35 N1
Stage 5 & 6 Compressor Disks	Visually inspect at each exposure and NDT when blade sets are removed.	72-33-36 72-33-37 N1
First Stage Compressor Stator	Visually inspect at each exposure.	72-33-51 N1
Stage 1.5, Second and Third Compressor Stators	Visually inspect at each exposure. Dimensional and visual inspect with white light and 3X magnification at each removal for restoration.	72-33-52 72-33-53 72-33-54 N1
Fourth and Fifth Stage Compressor Stators	At each exposure: Visually check for an unserviceable condition with careful attention to vanes and snaps. Check coating for general deterioration allowing minor loss of coating on the vane leading edge. Record condition of stators at exposure. Stators acceptable to this level of inspection may remain in SVI or repair rotors. Stators that do not pass the inspection requirements will be dimensionally and NDT inspected.	72-33-55 72-33-56 N1

06-10-93

72-00
MAINTENANCE PROGRAM
PAGE 2



DELTA AIR LINES
LIFE LIMITED PART HISTORY

①

ALN: 0204
MFG P/N: 5000501-01

MFG S/N: R32971
PARTS: FRONT HUB

AIR LINE CODE	A/C & POS	ENG TYPE	ENG S/N	INST DATE	INST A/C TT	INST A/C TC	INST PART TT	INST PART TC	TRANSFR/RMVL DATE	RMVL A/C TT	RMVL A/C TC	RMVL PART TT	RMVL PART TC
DAL	927/1	J29	726984	01-Jan-96	20501.9	17685	15013.2	12693	06-Jul-96	22030.7	18826	16542.0	1385
DAL	905/1	J29	725627	06-Mar-92	13839.9	12813	5020.0	4456	24-Sep-95	23833.1	21045	15013.2	12693
DAL	956/1	J29	725528	27-Apr-90	0.0	0	0.0	0	14-Jan-92	5020.0	4453	5020.0	4456
Received @		Delta		on Eng S/N		725528							

②

CURRENT STATUS

DATE AS OF	PART TT	PART TC	HR LIMIT	CYC LIMIT	HRS REM	CYCS REM
07/06/96	16542.0	13835		20000		6165

DELTA AIR LINES
ENGINE RECORD
OFFICIAL DOCUMENT

REMARK:

Handwritten notes:
New Records
from 1/1/96

To the best of my knowledge, the data depicted in this report is valid and complete.

By [Signature] Dated 7/7/96

WORK CARD SUMMARY SHEET
J78E-213

OP# NO. M138
33X25528
RD TOR/MOD-S/N

ACR# NO. 1

219- N1

CHECK TYPE WORK ACCOMPLISHED:

15% [] CK. BAL [] REPAIR

RAIDING NO. 02E28

ENG N 725528

ART# 30 JAN 92

DATE COMPLETED 21 Feb 92

FOR CHECK OF ROUTINE AND NON-ROUTINE GIC CARDS ARE NUMBERED FROM 1 TO 27

SCHEDULER CHECK LIST:

THIS CHECK OF CARDS HAS BEEN CHECKED AND ALL ITEMS PROPERLY SIGNED OFF.

- 1. JPC/NR CARDS CHECKED BY [Signature]
- 2. DATA CARDS CHECKED BY [Signature] sent with rotor prior to 2nd ck
- 3. E.O. CARDS CHECKED BY NO E.O. [Signature]

REMARKS:

NOTE: ALL NON-APPLICABLE SPACES MUST BEAR "NA" AND INITIALS (FIRST, MIDDLE, LAST).

SIGNATURES MUST BEAR SIGNATURE CONSISTING OF FIRST AND FULL WRITTEN LAST NAME (FIRST, MIDDLE AND LAST ARE ACCEPTABLE IF SPACE PREVENTS FULL SIGNATURE) OR INFORMATION AS REQUIRED.

3

55-24

1. ILLD GR
 2. req
 3. assembly
 4. ers and
 5. igned as

1287

IC140 A
 Part
 Part
 Part
 Part
 Part
 Part
 Part
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 Part

[Handwritten signature]

2. Provide a (P/N) Comp. Parts
 provided Basic Engine Parts and
 forward to shop stock items

REFERENCE EXPLANATION

(T): Basic engine parts are those items indicated/described
 on Fig. 4380, Engine and Landing Gear Records Parts
 Data Card System. The use of parts other than those
 listed on the product structure must be verifiable
 by the Parts Application Manual and documented or
 identified in engineering documentation. Provided
 parts includes replacement part(s) plus any inspected
 "serviceable as is" retained part(s) selected/verified
 for assembly.

4

Dept. 272

M153

33X-5528

5

ASSEMBLY N1 COMPRESSOR

	TECH	INSP
1. Install PWA 45236 nut Check runout max. .002 FIR Record Concentricity <u>.001</u>	Mack	
2. Install 4th Stg. disk and blade assy. Check runout max. .002 FIR Record concentricity <u>.0015</u> Squareness <u>.001</u>	Mack	
3. Install 4th Stg. Comp. case.	Mack	
4. Install 5th Stg. disk and blade assy. Check runouts max. .002 FIR Record concentricity <u>.0015</u> Squareness <u>.001</u>	Mack	
5. Install 5th Stg. Comp. Case and 1th Stg. Stator	Mack	
6. Install 6th Stg. Disk and Blade Assy.	Mack	
7. Torque 6th Stg. disk to spec.	Mack	
8. Trunnion comp. rear nut Check runouts max. .002 FIR Record concentricity <u>.001</u> Squareness <u>.00075</u>	Mack	
9. Install 4th Stg. Stator	Mack	
10. Install 3rd Stg. Comp. Case and 2nd Stg. Case	Mack	
11. Install 3rd Stg. Disk and Blade Assy.	Mack	
12. Torque 3rd Stg. Disk to 4th Stg. Disk Tierods.	Mack	
13. Check runouts max. .002 FIR Record Concentricity <u>.0015</u> Squareness <u>.001</u>	Mack	
14. Install 2nd Stg. Stator and 2nd Stg. Case.	Mack	
15. Install 2nd Stg. Disk and Blade Assy.	Mack	

6

153

x25

6

PRESSO

Stg.

Stg.

Stg.

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Stage

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Stg.

Stg.

nts max

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ert

[Handwritten notes on lined paper, including the word "wicket" repeated multiple times]

7

DELTA AIRLINES
 TIME CONTROL DATA CARD
 SERIAL NUMBER
 MFG PART NUMBER
 ALN 8000
 MFG 71240
 UN 7233
 JTS0717

RESTR	T	L	LIMIT	ACTUAL	REMAIN	RESTR	T	L	LIMIT	ACTUAL	REMAIN
CSR	SOFT	C	0	4456.0	.0	CSR	SOFT	H	0	5020.0	.0
CSSVI				4456.0	.0	CSSVI				5020.0	.0
LIFE	LMY	C	20000	4456.0	15544.0	LIFE	LMY	C	0	5020.0	.0

COMP IT: 5020.0 COMP TC: -4456.0
 SETS IT: SETS TC: INIT DT: _____
 RMVL SHIP TCGE 0000 : RMVL DT: 01/21/92 DT: 1-28-92
 RMVL CD: 164 F00 - ORIGIN UN 0000 ASSIGN INCP: DT: 7-19-92
 NICE RE: DT: 5-20-92
 REMARKS:
 SYS MSG:

DELTA AIRLINES
 TIME CONTROL DATA CARD
 SERIAL NUMBER
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8