

F. J. Turbine Power, Inc.

DATE TESTED: 15-Apr-08

FAA Approved Repair Station F7JR192Y

Form Q 009 - 1/5/04

Engine Work Card: FJT 5001 7/2/04

ENGINE WORK CARD

WARNING: This routine work form does not in any way supersede the OEM's manual requirements. This form is intended to be used in conjunction with the OEM's manuals.

TITLE:				
ENGINE TEST RESULTS				
WORK ORDER		ENGINE MODEL	ENGINE SERIAL NUMBER	
5001108		JT8D-17	689892	
TEST SPECIFICATIONS:		MANUAL USED <u>JT8D P/N 481672</u>	TYPE OF TEST: <u>TEST # 3</u>	
TEST LIMITS (CHECK ONE):		<input checked="" type="checkbox"/> HEAVY MAINTENANCE	<input type="checkbox"/> OVERHAUL	<input type="checkbox"/> OTHER: _____
ITEM	OPERATION AND REFERENCED PROCEDURE	ACCEPTED	REJECTED	DOES NOT APPLY
1	MAIN OIL PRESSURE	FJTP 21 INSP		
2	MAIN OIL TEMPERATURE.	FJTP 21 INSP		
3	OIL CONSUMPTION	FJTP 21 INSP		
4	BREATHER PRESSURE	FJTP 21 INSP		
5	MAXIMUM EXHAUST GAS TEMPERATURE (EGT)	FJTP 21 INSP		
6	EXHAUST GAS TEMPERATURE (EGT) SPREAD.	FJTP 21 INSP		
7	FRONT VIBRATION LIMITS.	FJTP 21 INSP		
8	REAR VIBRATION LIMITS.	FJTP 21 INSP		
9	TURBINE COOLING PRESSURE.	FJTP 21 INSP		
10	MAXIMUM LOW COMPRESSOR SPEED.	FJTP 21 INSP		
11	MAXIMUM HIGH COMPRESSOR SPEED.	FJTP 21 INSP		
12	E.P.R. vs. THRUST RELATIOSHIP.	FJTP 21 INSP		
13	ACCELERATION TIME.	FJTP 21 INSP		
14	ANTI-SURGE BLEED CHECK.	FJTP 21 INSP		
15	AUTOMATIC RESERVE THRUST INCREMENT (-17R, -17AR & -200 SERIES ONLY).			FJTP 21 INSP
16	SPEED DATA PLATE. OBSERVED: R.P.M.: <u>10,835</u> PERCENT: <u>88.48</u> %	FJTP 21 INSP		FJTP 21 INSP
17	RE-STAMP OF DATA PLATE REQUIRED (IF ENGINE QUALIFIES BASED ON WORK PERFORME		NO <input type="checkbox"/>	YES <input checked="" type="checkbox"/>
18	COMMENTS:	TAKE-OFF LIMIT	TAKE-OFF OBSERVED	TAKE-OFF MARGIN
	RED LINE	<u>1,202</u> ° F (650 ° C)	<u>1,068</u> ° F (576 ° C)	134 ° F (74 ° C)
	EHM (FOR TT2)	<u>1,117</u> ° F (603 ° C)		49 ° F (27 ° C)

F.J. TURBINE POWER, INC FAA # F7JR192Y JT8D ENGINE TEST

MODEL JT8D-17 S/N 689892 W.O. 5001108 CUST T.E.S. COND PARTPOWER

14 C 503 C

CIT 57 F EGT 937 F T7 TIME at TEMP 0 THRUST 11334 LBS EPR 1.782

CORRECTED DATA

N1 % 86.15 N1 RPM 7402 *****7 N1 7416 Pt2 30.03 HGA

N2 % 89.77 N2 RPM 10997 *****4 N2 11017 Pt2 AVG -.5 "H2O

EGT 942 Pt7 53.50 HGA
Wf 6771

TIMER 0 sec.

TSFC 0.574

MAIN OIL 47PSIG MAIN FUEL 20PSIG

BREATHER 4.6 "HG FUEL FLOW 6781PPH VIBRATION

OIL IN 167 F FUEL IN 66 F COMP 1.7
75 C TURB 1.4

Ps3/Pt2 2.983

OIL OUT 78 DEG F PS4 185.0 PSIA PS3 89.6 HGA

Ps4/Pt2 12.542

CELL TEMP 57 F BAROMETER 30.07 "HG

PCP 101.7 PSIA

CAL LOAD CELL STOWED TIME 07:21:28 DATE 04/15/08

PS3 44.0 PSIA

PCP RATIO 0.550

FJ TURBINE POWER, INC

FAA REPAIR STATION F7JR192Y

JT8D

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MODEL JT8D-17 S/N 689892 W.O. 5001108 CUSTOMER T.E.S.

T7

COND PARTPOWER

1. 963 F

2. 953 F

3. 894 F CALCULATED AVG.
939 F

4. 966 F

5. 894 F

6. 912 F

EGT SPREAD
EGT LO ~~894~~ EGT HI ~~972~~ EGT SPREAD ~~78~~
CHN216 CHN217

7. 956 F

8. 972 F

DATE 04/15/08

14 C 384 C
 CIT 57 F EGT 724 F T7 TIME at TEMP 0 THRUST 0 LBS EPR 1.047

CORRECTED DATA

N1 % 31.65 N1 RPM 2719 ****7 N1 2724 Pt2 30.09 HGA
 N2 % 55.59 N2 RPM 6810 *****4 N2 6864 Pt2 AVG 0.2 "H2O

TIMER 0 sec.

MAIN OIL 41PSIG MAIN FUEL 28PSIG TSFC 1.267

BREATHER 0.4 "HG FUEL FLOW 1078PPH VIBRATION

OIL IN 217 F FUEL IN 67 F COMP 0.4 Ps3/Pt2 1.116
 103 C TURB 0.2 Ps4/Pt2 1.014

OIL OUT 78 DEG F PS4 15.0 PSIA PS3 33.6 HGA

CELL TEMP 57 F BAROMETER 30.07 "HG PCP 23.3 PSIA

CAL LOAD CELL STOWED TIME 07:27:08 DATE 04/15/08 PS3 16.5 PSIA

PCP RATIO 1.553

F.J. TURBINE POWER, INC FAA # F7JR192Y JT8D ENGINE TEST

MODEL JT8D-17 S/N 689892 W.O. 5001108 CUST T.E.S. COND TAKEOFF

13 C 576 C

CIT 56 F EGT 1068 F T7 TIME at TEMP 0 THRUST 15478 LBS EPR 2.156

CORRECTED DATA

N1 % 96.24 N1 RPM 8269 *****3 N1 8293 Pt2 30.01 HGA
Fn 16011
N2 % 94.67 N2 RPM 11597 *****2 N2 11630 Pt2 AVG -.8 "H2O
EGT 1077

TIMER 0 sec.

Wf 9720 Pt7 64.70 HGA

MAIN FUEL 14PSIG TSFC 0.607

MAIN OIL 48PSIG

FUEL FLOW 9714PPH VIBRATION

BREATHER 6.4 "HG

COMP 2.4

FUEL IN 67 F TURB 1.3

OIL IN 178 F 81 C

Ps3/Pt2 3.690

PS4 240.4 PSIA PS3 110.8 HGA

Ps4/Pt2 16.309

OIL OUT 78 DEG F

PCP 131.5 PSIA

CELL TEMP 56 F

BAROMETER 30.07 "HG

CAL LOAD CELL STOWED TIME 07:31:08 DATE 04/15/08

PS3 54.4 PSIA

PCP RATIO 0.547

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JT8D

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MODEL JT8D-17 S/N 689892 W.O. 5001108 CUSTOMER T.E.S.

T7

COND TAKEOFF

1. 1089 F

2. 1091 F

3. 1033 F CALCULATED AVG.
1068 F

4. 1094 F

5. 1027 F

6. 1040 F

EGT SPREAD
EGT LO 1027 ~~-~~ EGT HI 1103 ~~-~~ EGT SPREAD 76 ~~-~~
CHN216 CHN217

8. 1103 F

DATE 04/15/08

F.J. TURBINE POWER, INC FAA # F7JR192Y JT8D ENGINE TEST

MODEL JT8D-17 S/N 689892 W.O. 5001108 CUST T.E.S. COND M.CONT

13 C 558 C

CIT 56 F EGT 1037 F T7 TIME at TEMP 0 THRUST 14716 LBS EPR 2.091

CORRECTED DATA

N1 % 94.20 N1 RPM 8094 *****1 N1 8117 Pt2 30.03 HGA
Fn 15251
N2 % 93.86 N2 RPM 11498 *****1 N2 11531 Pt2 AVG -.5 "H2O
EGT 1045

TIMER 0 sec.

Wf 9105 Pt7 62.80 HGA

MAIN FUEL 15PSIG TSFC 0.597

MAIN OIL 47PSIG

FUEL FLOW 9106PPH VIBRATION

BREATHER 6.2 "HG

COMP 2.3

FUEL IN 67 F

TURB 1.6

OIL IN 204 F 96 C

Ps3/Pt2 3.541

PS4 230.0 PSIA

PS3 106.3 HGA

Ps4/Pt2 15.603

OIL OUT 78 DEG F

PCP 127.4 PSIA

CELL TEMP 56 F

BAROMETER 30.07 "HG

CAL LOAD CELL STOWED TIME 07:34:18 DATE 04/15/08

PS3 52.2 PSIA

PCP RATIO 0.554

FJ TURBINE POWER, INC

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JT8D

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MODEL JT8D-17 S/N 689892 W.O. 5001108 CUSTOMER T.E.S.

T7

COND M. CONT

1. 1043 F

2. 1049 F

3. 992 F CALCULATED AVG.
1040 F

4. 1069 F

5. 1017 F

6. 1034 F

EGT SPREAD
EGT LO ~~992~~ EGT HI ~~1069~~ EGT SPREAD ~~77~~
CHN216 CHN217

7. 1051 F

8. 1061 F

DATE 04/15/08

F.J. TURBINE POWER, INC FAA # F7JR192Y JT8D ENGINE TEST

MODEL JT8D-17 S/N 689892 W.O. 5001108 CUST T.E.S.

COND MAX CR.

13 C 516 C

CIT 56 F EGT 960 F T7 TIME at TEMP 0

THRUST 12349 LBS

EPR 1.876

CORRECTED DATA

N1 % 88.10 N1 RPM 7570 *****2

N1 7592

Pt2 30.01 HGA

N2 % 90.96 N2 RPM 11143 *****5

Fn 12849

Pt2 AVG -.8 "H2O

N2 11175

EGT 968

TIMER 0 sec.

Wf 7421

Pt7 56.30 HGA

MAIN FUEL 18PSIG

TSFC 0.578

MAIN OIL 46PSIG

FUEL FLOW 7417PPH

VIBRATION

BREATHER 4.3 "HG

COMP 1.6

FUEL IN 68 F

TURB 0.9

Ps3/Pt2 3.107

OIL IN 199 F

PS4 197.6 PSIA

PS3 93.2 HGA

Ps4/Pt2 13.398

93 C

OIL OUT 78 DEG F

CELL TEMP 56 F

BAROMETER 30.07 "HG

PCP 109.2 PSIA

CAL LOAD CELL

STOWED

TIME 07:42:06

DATE 04/15/08

PS3 45.8 PSIA

PCP RATIO 0.553

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FAA REPAIR STATION F7JR192Y

JT8D

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MODEL JT8D-17 S/N 689892 W.O. 5001108 CUSTOMER T.E.S.

T7

COND MAX CR.

1. 998 F

2. 961 F

3. 912 F CALCULATED AVG.

960 F

4. 994 F

5. 920 F

6. 936 F

EGT SPREAD

EGT LO ~~912~~ EGT HI ~~998~~ EGT SPREAD ~~86~~

7. 979 F

CHN216

CHN217

8. 989 F

DATE 04/15/08

F.J. TURBINE POWER, INC FAA # F7JR192Y JT8D ENGINE TEST

MODEL JT8D-17 S/N 689892 W.O. 5001108 CUST T.E.S. COND C.BAND

13 C 476 C

CIT 56 F EGT 888 F T7 TIME at TEMP 0 THRUST 9724 LBS EPR 1.651

CORRECTED DATA

N1 % 83.10 N1 RPM 7141 *****4 N1 7161 Pt2 30.05 HGA

N2 % 88.20 N2 RPM 10804 *****2 N2 10835 Pt2 AVG -.4 "H2O

TIMER 0 sec. EGT 896 Pt7 49.60 HGA

MAIN FUEL 21PSIG Wf 5807 TSFC 0.568

MAIN OIL 46PSIG

FUEL FLOW 5812PPH VIBRATION

BREATHER 4.2 "HG COMP 1.5

FUEL IN 68 F TURB 1.0 Ps3/Pt2 2.743

OIL IN 203 F 95 C

PS4 167.0 PSIA PS3 82.5 HGA Ps4/Pt2 11.314

OIL OUT 78 DEG F PCP 92.8 PSIA

CELL TEMP 56 F BAROMETER 30.07 "HG

CAL LOAD CELL STOWED TIME 07:45:29 DATE 04/15/08 PS3 40.5 PSIA

PCP RATIO 0.556

F.J. TURBINE POWER, INC FAA # F7JR192Y JT8D ENGINE TEST

MODEL	JT8D-17	S/N	689892	W.O.	5001108	CUST	T.E.S.	COND	IDLE
	13 C		386 C						
CIT	56 F	EGT	726 F	T7 TIME at	TEMP 0	THRUST	0 LBS	EPR	1.047
						CORRECTED DATA			
N1 %	31.84	N1 RPM	2736	****7		N1	2743	Pt2	30.09 HGA
						Fn	860		
N2 %	55.78	N2 RPM	6833	*****4		N2	6852	Pt2 AVG	0.2 "H2O
						EGT	733		
TIMER		0 sec.				Wf	1048	Pt7	31.50 HGA
						TSFC	1.219		
MAIN OIL	41PSIG			MAIN FUEL	28PSIG				
BREATHER	0.4 "HG			FUEL FLOW	1050PPH	VIBRATION			
						COMP	0.3		
OIL IN	227 F			FUEL IN	68 F	TURB	0.5	Ps3/Pt2	1.116
	108 C							Ps4/Pt2	1.014
OIL OUT	78 DEG F			PS4	15.0 PSIA	PS3	33.6 HGA	PCP	23.5 PSIA
	CELL TEMP	56 F				BAROMETER	30.07 "HG	PS3	16.5 PSIA
CAL LOAD CELL	STOWED			TIME	07:49:51	DATE	04/15/08	PCP RATIO	1.567

F.J. TURBINE POWER, INC FAA # F7JR192Y JT8D ENGINE TEST

MODEL JT8D-17 S/N 689892 W.O. 5001108 CUST T.E.S.

COND REVERSE

13 C 575 C

CIT 56 F EGT 1067 F T7 TIME at TEMP 0

THRUST 15499 LBS

EPR 2.159

CORRECTED DATA

N1 % 96.05 N1 RPM 8253 *****3

N1 8277

Pt2 30.01 HGA

N2 % 94.10 N2 RPM 11527 *****1

Fn 16031

N2 11560

Pt2 AVG -.9 "H2O

EGT 1076

TIMER 0 sec.

Wf 9856

Pt7 64.80 HGA

MAIN FUEL 13PSIG

TSFC 0.615

MAIN OIL 48PSIG

FUEL FLOW 9850PPH

VIBRATION

BREATHER 5.5 "HG

FUEL IN 68 F

COMP 2.0

TURB 1.1

Ps3/Pt2 3.738

OIL IN 159 F

71 C

PS4 241.0 PSIA

PS3 112.2 HGA

Ps4/Pt2 16.302

OIL OUT 78 DEG F

CELL TEMP 56 F

BAROMETER 30.07 "HG

PCP 129.3 PSIA

CAL LOAD CELL STOWED TIME 07:54:51

DATE 04/15/08

PS3 55.1 PSIA

PCP RATIO 0.538

F.J. TURBINE POWER, INC FAA #F7JR192Y ENGINE TEST
MODEL JT8D-17 S/N 689892 W.O. 5001108 CUSTOMER

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T.E.S.

BLEED VALVE SCHEDULE

MIN LIMIT	38.4	CHN223	PS4	172	PSIG
MAX LIMIT	42.2	CHN224	PS3	29.3	PSIG
OPEN @	40.9	CHN225	PS3	89.8	HGA
CLOSED @	40.9	CHN226			

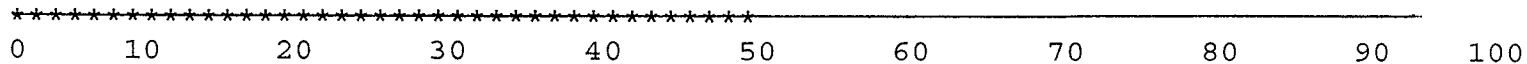
DATE 04/15/08

MODEL JT8D-17 S/N 689892 W.O. 5001108 CUSTOMER T.E.S.

ACCELERATION TIME CHECK

N2 RPM PERCENT 94.67

PERCENT RPM



TIME 7.0

DATE 04/15/08

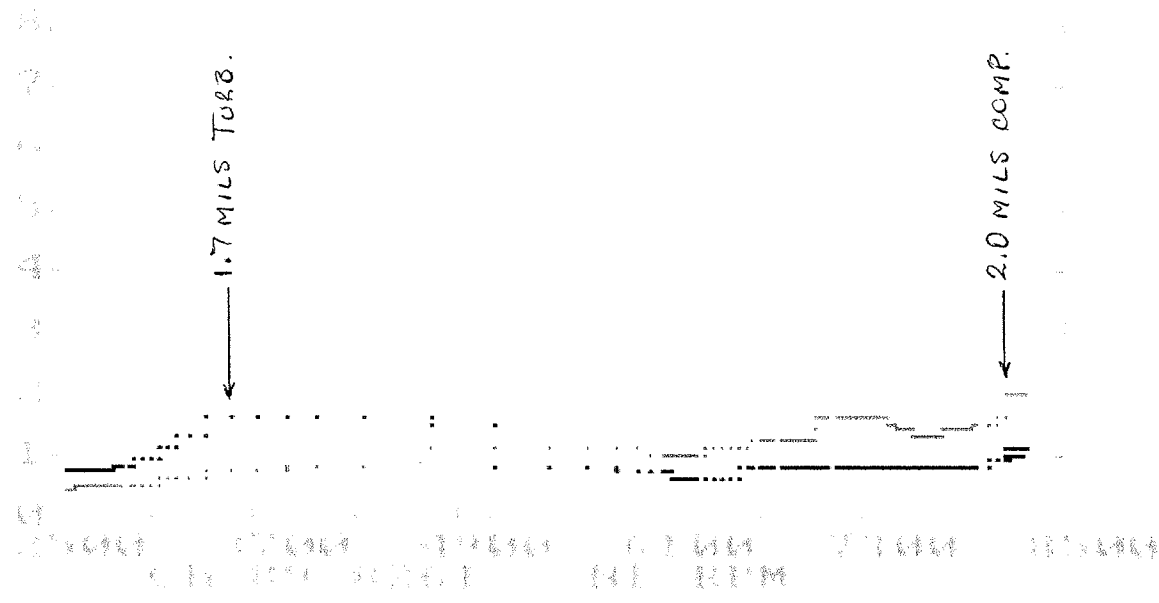
TIME OF DAY 07:50:21

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Program: SYS-CAT run date: 04 15 2008
(Ch 50) (Ch 51)

10
9
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ACCEL.



Program: SYS-CAT run date: 04 15 2008
(Ch 50) (Ch 51)

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DECEL.

