



TEST CELL RESULTS

W. O.: 800725

MODEL: JT8D-219

ESN: P726122V

F. J. Turbine Power, Inc.

DATE TESTED: 4-Apr-14

FAA Approved Repair Station F7JR192Y

Form Q 009 - 1/5/04

Engine Work Card: FJT 5001A 7/22/11

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 - JT8D-200				
WORK ORDER 800725		ENGINE MODEL JT8D-219		ENGINE SERIAL NUMBER P726122V
TEST SPECIFICATIONS:		MANUAL USED <u>P/N 773128 REV.# 99</u>	TYPE OF TEST: <u>PRE-INDUCTION</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 RELATIONSHIP.	FJTP 21 INSP		
13	ACCELERATION TIME.	FJTP 21 INSP		
14	ANTI-SURGE BLEED CHECK.	FJTP 21 INSP		
15	AUTOMATIC RESERVE THRUST INCREMENT.	FJTP 21 INSP		
16	SPEED DATA PLATE. OBSERVED: R.P.M.: <u>11,101</u> PERCENT: <u>90.66</u> %	FJTP 21 INSP		
17	RE-STAMP OF DATA PLATE REQUIRED IF ENGINE QUALIFIES BASED ON WORK PERFORME			NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>
18	COMMENTS:	TAKE-OFF LIMIT	TAKE-OFF - ACTUAL	TAKE-OFF MARGIN
	RED LINE	<u>590</u> °C (OBSERVED)	<u>572</u> °C (OBSERVED)	<u>18</u> °C
	EHM (for Pt7/Pt2)	<u>543</u> °C (CORRECTED)	<u>542</u> °C (CORRECTED)	<u>1</u> °C
	CIT: <u>78</u> °F			

FJ TURBINE POWER, INC FAA #F7JR192Y JT8D-200 ENGINE TEST FROM PAGE 26
THIS DATA HAS BEEN CORRECTED BY USING CORRECTED PT2 PER CMS TABLE NO. 1424 EQUATION 2
(CURVE 1891-2)

MODEL: JT8D-219 S/N: P726122V WO: 800725 CUST: FJ TURBINE POWER
IDLE.

CIT

26	°C
78	°F

 EGT

393	°C
740	°F

 T7 TIME @ TEMP

0

 THRUST

1099

 LBS CORR. EPR

1.031

N1 %

26.22

 N1 RPM

2,157

N2 %

54.54

 N2 RPM

6,681

CORRECTED DATA

N1	2118
Fn	1093
N2	6561
EGT	370 °C
Wf	972
TSFC	0.889

CORR. PT2

30.09

 HGA
PT2 AVG (CELL)

0.00

 "H20
PT7

31.01

 HGA

TIMER

MAIN OIL

45

 PSIG MAIN FUEL

29

 PSIG
BREATHER

0.1

 "HG FUEL FLOW

1005

 PPH
OIL IN

154	°F
68	°C

 FUEL IN

81

 °F
OIL OUT

168

 °F PS4

14.7

 PSIA PS3

41.7

 HGA
CELL TEMP

78

 °F BAROMETER

30.09

 "HG

VIBRATION

COMP	0.1
TURB	0.4

CORR. Ps3/Pt2

1.387

CORR. Ps4/Pt2

0.995

PCP

20.3

 PSIA
PS3

20.5

 PSIA
PCP RATIO

1.381

4/4/2014

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(CURVE 1891-2)

MODEL: JT8D-219 S/N: P726122V WO: 800725 CUST: FJ TURBINE POWER
C. BAND.

CIT

26
78

 °C / °F EGT

497
927

 °C / °F T7 TIME @ TEMP

0

 THRUST

14596

 LBS CORR. EPR

1.650

CORRECTED DATA

N1 %

81.96

 N1 RPM

6,739

N2 %

92.29

 N2 RPM

11,304

N1	6618
Fn	15133
N2	11101
EGT	470 °C
Wf	7370
TSFC	0.487

CORR. PT2

30.05

 HGA
PT2 AVG (CELL)

-1.20

 "H2O
PT7

49.59

 HGA

TIMER

MAIN OIL

47

 PSIG MAIN FUEL

25

 PSIG
BREATHER

0.5

 "HG FUEL FLOW

7611

 PPH
OIL IN

185
85

 °F / °C FUEL IN

79

 °F

VIBRATION

COMP	0.8
TURB	0.5

CORR. Ps3/Pt2

5.468

CORR. Ps4/Pt2

13.409

OIL OUT

288

 °F PS4

197.9

 PSIA PS3

164.3

 HGA
CELL TEMP

78

 °F BAROMETER

30.11

 "HG

PCP

112.8

 PSIA
PS3

80.7

 PSIA
PCP RATIO

0.570

4/4/2014

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 (CURVE 1891-2)

MODEL: JT8D-219 S/N: P726122V WO: 800725 CUST: FJ TURBINE POWER
 IDLE.

CIT

26
78

 °C/°F EGT

389
734

 °C/°F T7 TIME @ TEMP

0

 THRUST

1127

 LBS CORR. EPR

1.031

N1 %

26.37

 N1 RPM

2,168

 N2 %

54.78

 N2 RPM

6,710

CORRECTED DATA

N1	2129
Fn	1120
N2	6590
EGT	366 °C
Wf	971
TSFC	0.867

CORR. PT2

30.11

 HGA
 PT2 AVG (CELL)

0.00

 "H20
 PT7

31.04

 HGA

TIMER

MAIN OIL

44

 PSIG MAIN FUEL

29

 PSIG
 BREATHER

0.1

 "HG FUEL FLOW

1005

 PPH
 OIL IN

209
98

 °F/°C FUEL IN

80

 °F
 OIL OUT

240

 °F PS4

14.6

 PSIA PS3

41.9

 HGA
 CELL TEMP

78

 °F BAROMETER

30.11

 "HG

VIBRATION

COMP	0.1
TURB	0.5

CORR. Ps3/Pt2

1.393

 CORR. Ps4/Pt2

0.987

 PCP

21.6

 PSIA
 PS3

20.6

 PSIA
 PCP RATIO

1.479

4/4/2014

FJ TURBINE POWER, INC FAA #F7JR192Y JT8D-200 ENGINE TEST FROM PAGE 26
THIS DATA HAS BEEN CORRECTED BY USING CORRECTED PT2 PER CMS TABLE NO. 1424 EQUATION 2
(CURVE 1891-2)

MODEL: JT8D-219 S/N: P726122V WO: 800725 CUST: FJ TURBINE POWER
TAKEOFF.

CIT

26
78

 °C / °F EGT

572
1062

 °C / °F T7 TIME @ TEMP

0

 THRUST

20556

 LBS CORR. EPR

1.989

CORRECTED DATA

N1	7445
Fn	21118
N2	11708
EGT	542 °C
Wf	10815
TSFC	0.512

CORR. PT2

30.03

 HGA
PT2 AVG (CELL)

-1.50

 "H2O
PT7

59.74

 HGA

N1 %

92.39

 N1 RPM

7,597

N2 %

97.38

 N2 RPM

11,928

TIMER

MAIN OIL

47

 PSIG MAIN FUEL

21

 PSIG
BREATHER

0.5

 "HG FUEL FLOW

11163

 PPH
OIL IN

187
86

 °F / °C FUEL IN

79

 °F

VIBRATION

COMP	0.8
TURB	0.8

CORR. Ps3/Pt2

6.901

CORR. Ps4/Pt2

17.789

OIL OUT

307

 °F PS4

262.4

 PSIA PS3

206.7

 HGA

PCP

145.9

 PSIA

PS3

101.8

 PSIA

CELL TEMP

78

 °F BAROMETER

30.11

 "HG

PCP RATIO

0.555

4/4/2014

FJ TURBINE POWER, INC

FAA REPAIR STATION F7JR192Y

JT8D

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MODEL JT8D-219 S/N P726122V W.O. 800725

CUSTOMER

FJ TURBINE

T7
1. 1084 F

COND

TAKEOFF

2. 1101 F

3. 1054 F CALCULATED AVG.
1063 F

4. 1059 F

5. 1093 F

6. 991 F

EGT SPREAD
EGT LO 991 -0- EGT HI 1101 -00- EGT SPREAD 110 -0-
CHN216 CHN217

7. 1066 F

8. 1053 F

DATE 04/04/14

FJ TURBINE POWER, INC FAA #F7JR192Y JT8D-200 ENGINE TEST FROM PAGE 26
 THIS DATA HAS BEEN CORRECTED BY USING CORRECTED PT2 PER CMS TABLE NO. 1424 EQUATION 2
 (CURVE 1891-2)

MODEL: JT8D-219 S/N: P726122V WO: 800725 CUST: FJ TURBINE POWER
 (DLE)

CIT

26	°C
78	°F

 EGT

392	°C
737	°F

 T7 TIME @ TEMP

0

 THRUST

1091

 LBS CORR. EPR

1.030

N1 %

25.80

 N1 RPM

2,121

 N2 %

53.97

 N2 RPM

6,611

CORRECTED DATA

N1	2083
Fn	1084
N2	6492
EGT	368 °C
Wf	898
TSFC	0.828

CORR. PT2

30.11

 HGA
 PT2 AVG (CELL)

0.00

 "H20
 PT7

31.00

 HGA

TIMER

MAIN OIL

44

 PSIG MAIN FUEL

29

 PSIG
 BREATHER

0.1

 "HG FUEL FLOW

929

 PPH
 OIL IN

224	°F
107	°C

 FUEL IN

80

 °F
 OIL OUT

249

 °F PS4

14.6

 PSIA PS3

41.5

 HGA
 CELL TEMP

78

 °F BAROMETER

30.11

 "HG

VIBRATION

COMP	0.1
TURB	0.3

CORR. Ps3/Pt2

1.380

 CORR. Ps4/Pt2

0.987

 PCP

21.5

 PSIA
 PS3

20.4

 PSIA
 PCP RATIO

1.473

4/4/2014

BLEED VALVE SCHEDULE

MIN LIMIT	67.7	CHN223	PS4	-.20	PSIG
MAX LIMIT	73.2	CHN224	PS3	6.10	PSIG
OPEN @	69.6	CHN225	PS3	42.6	HGA
CLOSED @	70.2	CHN226			

DATE 04/04/14

MODEL JT8D-219 S/N P726122V W.O. 800725 CUSTOMER FJ TURBINE

ACCELERATION TIME CHECK

N2 RPM PERCENT 95.91

PERCENT RPM

0 10 20 30 40 50 60 70 80 90 100

TIME 5.0

DATE 04/04/14

TIME OF DAY 10:18:48

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