



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT8D-17
UNIQUE ID NUMBER: 1PW013
COMBUSTOR: Reduced emissions
ENGINE TYPE: MTF

BYPASS RATIO: 1.0
PRESSURE RATIO (π_{00}): 17.0
RATED THRUST (F_{00}) (kN): 71.2

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	6.2	42.6	70.0	18.5
AS % OF ORIGINAL LIMIT	31.5	36.1	94.6	71.1
AS % OF CAEP/2 LIMIT (NO _x)			118.3	
AS % OF CAEP/4 LIMIT (NO _x)			140.1	
AS % OF CAEP/6 LIMIT (NO _x)			152.3	
AS % OF CAEP/8 LIMIT (NO _x)			180.3	

DATA STATUS

- PRE-REGULATION
x CERTIFICATION
- REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
x DEDICATED ENGINES TO PRODUCTION STANDARD
- OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
x OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	1.245	0.22	0.95	20.60	16.8
CLIMB OUT	85	2.2	0.997	0.27	1.10	15.70	
APPROACH	30	4.0	0.354	0.52	2.67	8.00	
IDLE	7	26.0	0.147	1.25	10.46	3.20	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			499	379	2826	4559	-
NUMBER OF ENGINES				3	3	2	3
NUMBER OF TESTS				8	8	5	5
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				5.3	39.4	63.7	16.8
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW)
STAGE BLEED 0 (% CORE FLOW)

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	
TEMPERATURE (K)	266-297
ABS HUMIDITY (kg/kg)	

FUEL

SPEC	Jet A
H/C	
AROM (%)	

MANUFACTURER: Pratt & Whitney
TEST ORGANIZATION: P&WA
TEST LOCATION: East Hartford, CT
TEST DATES: 07/12/1979-19/06/1980

REMARKS

1. Reduced Emissions Combustor incorporated 1/1/84

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)