



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT8D-9 series
UNIQUE ID NUMBER: 1PW007
COMBUSTOR: Reduced emissions
ENGINE TYPE: MTF

BYPASS RATIO: 1.0
PRESSURE RATIO (π_{00}): 15.9
RATED THRUST (F_{00}) (kN): 64.5

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	14.4	57.2	59.6	11.8
AS % OF ORIGINAL LIMIT	73.7	48.5	83.1	44.4
AS % OF CAEP/2 LIMIT (NO _x)			103.8	
AS % OF CAEP/4 LIMIT (NO _x)			120.2	
AS % OF CAEP/6 LIMIT (NO _x)			128.8	
AS % OF CAEP/8 LIMIT (NO _x)			149.8	

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)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	1.040	0.15	1.04	19.30	10.1
CLIMB OUT	85	2.2	0.845	0.18	1.11	14.50	
APPROACH	30	4.0	0.298	0.60	2.14	6.00	
IDLE	7	26.0	0.132	3.12	14.14	2.90	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			433	713	3241	3488	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				7	7	4	4
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				11.1	50.2	54.2	10.1
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)	270-311
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: 26/02/1980-18/06/1980

REMARKS

1. Reduced Emissions Combustor incorporated 1/1/84.
2. Applicable to JT8D-9, -9A.

Compliance with Fuel Venting requirements:

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