



## ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

## SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT8D-15  
UNIQUE ID NUMBER: 1PW010  
COMBUSTOR: Reduced emissions  
ENGINE TYPE: MTF

BYPASS RATIO: 1.0  
PRESSURE RATIO ( $\pi_{co}$ ): 16.8  
RATED THRUST ( $F_{oo}$ ) (kN): 68.9

## REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
D <sub>p</sub> /F <sub>oo</sub> (g/kN) or SN	7.1	46.1	65.5	17.3
AS % OF ORIGINAL LIMIT	36.3	39.0	89.0	65.9
AS % OF CAEP/2 LIMIT (NO <sub>x</sub> )			111.3	
AS % OF CAEP/4 LIMIT (NO <sub>x</sub> )			130.7	
AS % OF CAEP/6 LIMIT (NO <sub>x</sub> )			141.4	
AS % OF CAEP/8 LIMIT (NO <sub>x</sub> )			166.2	

## 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 <sub>oo</sub> )	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
TAKE-OFF	100	0.7	1.178	0.24	1.03	19.40	15.7
CLIMB OUT	85	2.2	0.945	0.28	1.15	15.10	
APPROACH	30	4.0	0.340	0.55	2.77	6.90	
IDLE	7	26.0	0.148	1.46	11.00	3.20	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			486	428	2955	4144	-
NUMBER OF ENGINES				3	3	2	3
NUMBER OF TESTS				8	8	5	5
AVERAGE D <sub>p</sub> /F <sub>oo</sub> (g/kN) or AVERAGE SN (MAX)				6.1	42.6	59.6	15.7
SIGMA (D <sub>p</sub> /F <sub>oo</sub> in g/kN, or SN)							
RANGE (D <sub>p</sub> /F <sub>oo</sub> 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)