



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

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

BYPASS RATIO: 1.03
PRESSURE RATIO (π_{00}): 16.81
RATED OUTPUT (F_{00}) (kN): 68.94

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{00} (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 (NOx)			111.3 %	
AS % OF CAEP/4 LIMIT (NOx)			130.7 %	
AS % OF CAEP/6 LIMIT (NOx)			141.4 %	
AS % OF CAEP/8 LIMIT (NOx)			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

MEASURED DATA

MODE	POWER SETTING (% F_{00})	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NOx	
TAKE-OFF	100	0.7	1.178	0.24	1.03	19.4	15.7
CLIMB OUT	85	2.2	0.945	0.28	1.15	15.1	-
APPROACH	30	4.0	0.340	0.55	2.77	6.9	-
IDLE	7	26.0	0.148	1.46	11	3.2	-
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_p/F_{00} (g/kN) or AVERAGE SN (MAX)				6.1	42.6	59.6	15.7
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) AT - POWER SETTINGS
STAGE BLEED 0 % CORE FLOW 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: E Hartford, CT, USA
TEST DATES: FROM 07 Dec 79 TO 19 Jun 80

REMARKS

1. Reduced Emissions Combustor incorporated 1/1/84

If REVISED, this data supersedes databank UID
Compliance with fuel venting requirements:

0 ('x' if complies, PR if pre-regulation)