ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT15D-1 series
UNIQUE ID NUMBER: 1PW035
ENGINE TYPE: TF

BYPASS RATIO: 3.3
PRESSURE RATIO (π_{oo}): 9.76
RATED OUTPUT (F_{oo}) (kN): 9.79

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	293.6	665.2	31.1	19.3
AS % OF ORIGINAL LIMIT	#VALUE!	#VALUE!	#VALUE!	#VALUE!
AS % OF CAEP/2 LIMIT (NOx)			#VALUE!	
AS % OF CAEP/4 LIMIT (NOx)			#VALUE!	
AS % OF CAEP/6 LIMIT (NOx)			#VALUE!	
AS % OF CAEP/8 LIMIT (NOx)			#VALUE!	

DATA STATUS

x PRE-REGULATION
- 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 ($\%F_{oo}$)	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg) HC	CO	NOx	SMOKE NUMBER
TAKE-OFF	100	0.7	0.148	0.01	2.65	7.6	15
CLIMB OUT	85	2.2	0.124	0.01	3.5	6.77	-
APPROACH	30	4.0	0.051	4.43	40.5	3.44	-
IDLE	7	26.0	0.023	50.5	132	1.75	-
LTO TOTAL FUEL (kg) or EMISSIONS (g)			71	1866	5306	263	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				1	1	1	1
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				190.65	541.97	26.85	15
SIGMA (D_p/F_{oo} in g/kN, or SN)				-	-	-	-
RANGE (D_p/F_{oo} 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)	100.526
TEMPERATURE (K)	290
ABS HUMIDITY (kg/kg)	0.0079

FUEL

SPEC	Jet A-1
H/C	1.85
AROM (%)	< 20

MANUFACTURER: Pratt & Whitney (Canada)
TEST ORGANIZATION: Pratt & Whitney (Canada)
TEST LOCATION: Longueuil, Quebec
TEST DATES: FROM 17 Aug 77 TO -

REMARKS

1. Not required to meet GASEOUS emissions regulations.
2. Applicable to JT15D-1, -1A, -1B.

If REVISED, this data supersedes databank UID
Compliance with fuel venting requirements: 0 ('x' if complies, PR if pre-regulation)