ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT15D-4 series
UNIQUE ID NUMBER: 1PW036
ENGINE TYPE: TF
BYPASS RATIO: 2.68
PRESSURE RATIO (π_{oo}): 10.1
RATED OUTPUT (F_{oo}) (kN): 11.12

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	235.4	492.6	42.6	18.1
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	0.170	0.09	2.1	9.23	14.1
CLIMB OUT	85	2.2	0.143	0.19	3.18	8.56	-
APPROACH	30	4.0	0.059	5.15	32	5.29	-
IDLE	7	26.0	0.026	40	97	2.63	-
LTO TOTAL FUEL (kg) or EMISSIONS (g)			81	1706	4478	409	-
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)				152.83	401.3	36.77	14.1
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)	103.146
TEMPERATURE (K)	257
ABS HUMIDITY (kg/kg)	0.0015

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 Feb 73 TO -

REMARKS

1. Not required to meet GASEOUS emissions regulations.
2. Applicable to JT15D-4, -4B, -4C, -4D

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