ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT15D-5, -5A, -5B
UNIQUE ID NUMBER: 1PW037
ENGINE TYPE: TF
BYPASS RATIO: 2.1
PRESSURE RATIO (π_{oo}): 12.3
RATED OUTPUT (F_{oo}) (kN): 12.9

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	738.9	584.4	43.2	24.1
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

- \- 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 ($\%F_{oo}$)	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg) HC	CO	NOx	SMOKE NUMBER
TAKE-OFF	100	0.7	0.205	0	0	11.13	18.5
CLIMB OUT	85	2.2	0.173	1.3	1.15	10.08	-
APPROACH	30	4.0	0.066	11.7	38.6	4.93	-
IDLE	7	26.0	0.030	119.1	119.2	1.66	-
LTO TOTAL FUEL (kg) or EMISSIONS (g)			93	5715	6142	481	-
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)				479.8	476.1	37.3	18.5
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)	99.42
TEMPERATURE (K)	280.3
ABS HUMIDITY (kg/kg)	0.0036

FUEL

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

MANUFACTURER: Pratt & Whitney (Canada)
TEST ORGANIZATION: Pratt & Whitney (Canada)
TEST LOCATION: Longueuil, Quebec
TEST DATES: FROM 16 Apr 93 TO 22 Apr 93

REMARKS

1. Not required to meet GASEOUS emissions regulations.

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