ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT15D-5C
UNIQUE ID NUMBER: 1PW038
ENGINE TYPE: TF

BYPASS RATIO: 2.1
PRESSURE RATIO (π_{oo}): 13.3
RATED OUTPUT (F_{oo}) (kN): 14.19

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	481.7	543.9	37.1	20.1
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	0.215	0	2.52	9.93	17.1
CLIMB OUT	85	2.2	0.180	0.67	4.18	9.79	15.1
APPROACH	30	4.0	0.068	16	49.24	5.23	-
IDLE	7	26.0	0.028	96.67	124.6	1.08	-
LTO TOTAL FUEL (kg) or EMISSIONS (g)			92	4439	6288	454	-
NUMBER OF ENGINES				1	1	1	2
NUMBER OF TESTS				1	1	1	2
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				312.8	443.1	32	17.1
SIGMA (D_p/F_{oo} in g/kN, or SN)				-	-	-	2.23
RANGE (D_p/F_{oo} in g/kN, or SN)				-	-	-	15.5-17.1

ACCESSORY LOADS

POWER EXTRACTION	0	(kW)	AT	-	POWER SETTINGS
STAGE BLEED	0	% CORE FLOW	AT	-	POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	101.7
TEMPERATURE (K)	300
ABS HUMIDITY (kg/kg)	0.01

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 13 Jul 93 TO 13 Jul 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)