ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

** DATA SUPERSEDED ** SEE SHEET: 8PW089

ENGINE IDENTIFICATION:	PW4084	BYPASS RATIO:	6.4
UNIQUE ID NUMBER:	2PW062	PRESSURE RATIO (π_{oo}):	36.2
ENGINE TYPE:	TF	RATED OUTPUT (F_{oo}) (kN):	369.6

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	4.5	23.0	72.8	13.5
AS % OF ORIGINAL LIMIT	23.0 %	19.5 %	64.8 %	81.6 %
AS % OF CAEP/2 LIMIT (NOx)			81.0 %	
AS % OF CAEP/4 LIMIT (NOx)			91.7 %	
AS % OF CAEP/6 LIMIT (NOx)			102.0 %	
AS % OF CAEP/8 LIMIT (NOx)			116.4 %	

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)
-     OUT OF PRODUCTION
-     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	3.411	0.1	0.1	45	10.5
CLIMB OUT	85	2.2	2.689	0.1	0.1	35.5	–
APPROACH	30	4.0	0.875	0.2	0.4	12	–
IDLE	7	26.0	0.242	2.7	18.73	4.4	–
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1086	1111	7205	23229	–
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				2.9	19.5	62.8	10.5
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)	101.3
TEMPERATURE (K)	288
ABS HUMIDITY (kg/kg)	0.0063

FUEL

SPEC	Jet A
H/C	1.92
AROM (%)	20.3

MANUFACTURER:	Pratt and Whitney
TEST ORGANIZATION:	Pratt and Whitney
TEST LOCATION:	East Hartford, Ct, USA
TEST DATES:	FROM 26 Apr 94 TO 02 May 94

REMARKS

Data from X832-4

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