



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: PW6122A
UNIQUE ID NUMBER: 7PW083
ENGINE TYPE: MTF

BYPASS RATIO: 4.8
PRESSURE RATIO (π_{00}): 25.7
RATED OUTPUT (F_{00}) (kN): 98.31

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{00} (g/kN) or SN	0.0	57.4	38.1	5.8
AS % OF ORIGINAL LIMIT	0.1 %	48.6 %	41.7 %	24.4 %
AS % OF CAEP/2 LIMIT (NOx)			52.1 %	
AS % OF CAEP/4 LIMIT (NOx)			63.4 %	
AS % OF CAEP/6 LIMIT (NOx)			72.0 %	
AS % OF CAEP/8 LIMIT (NOx)			86.5 %	

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_{00})	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NOx	
TAKE-OFF	100	0.7	1.047	0	0.74	17.04	4.55
CLIMB OUT	85	2.2	0.860	0.001	0.72	13.4	4.35
APPROACH	30	4.0	0.304	0.001	3.99	5.95	1.32
IDLE	7	26.0	0.109	0.006	24.68	3.08	1.55
LTO TOTAL FUEL (kg) or EMISSIONS (g)			401	1	4602	3228	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D_p/F_{00} (g/kN) or AVERAGE SN (MAX)				0	46.8	32.8	4.55
SIGMA (D_p/F_{00} in g/kN, or SN)				-	-	-	-
RANGE (D_p/F_{00} 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)	100.8-102.7
TEMPERATURE (K)	270.5-281.2
ABS HUMIDITY (kg/kg)	0.00101-0.00237

FUEL

SPEC	Jet A
H/C	1.924
AROM (%)	17.4

MANUFACTURER: Pratt & Whitney
TEST ORGANIZATION: Pratt & Whitney
TEST LOCATION: Stand X8, Pratt & Whitney, East Hartford, CT
TEST DATES: FROM 12 Dec 03 TO 13 Dec 03

REMARKS

1. Data from Report PWA 7662
2. Engine Type description originally wrongly given as TF; amended in Issue 15 to MTF
3. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
4. NOx levels in accordance with Part III, Chapter 2, 2.3.2 e) (CAEP/8)

If REVISED, this data supersedes databank UID
Compliance with fuel venting requirements:

0 ('x' if complies, PR if pre-regulation)