



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

**** DATA SUPERSEDED ** SEE SHEET: 10PW098**

ENGINE IDENTIFICATION: PW4084D
UNIQUE ID NUMBER: 3PW065
ENGINE TYPE: TF

BYPASS RATIO: 6.3
PRESSURE RATIO (π_{oo}): 36.36
RATED OUTPUT (F_{oo}) (kN): 369.6

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	5.6	35.1	83.6	6.9
AS % OF ORIGINAL LIMIT	28.6 %	29.7 %	74.2 %	41.7 %
AS % OF CAEP/2 LIMIT (NOx)			92.7 %	
AS % OF CAEP/4 LIMIT (NOx)			104.9 %	
AS % OF CAEP/6 LIMIT (NOx)			116.6 %	
AS % OF CAEP/8 LIMIT (NOx)			133.0 %	

DATA STATUS

- PRE-REGULATION
x CERTIFICATION
- REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
- 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)			SMOKE NUMBER
				HC	CO	NOx	
TAKE-OFF	100	0.7	3.511	0.03	0.18	53.02	5.4
CLIMB OUT	85	2.2	2.771	0.03	0.24	39.47	3.1
APPROACH	30	4.0	0.907	0.06	0.48	12.7	1
IDLE	7	26.0	0.258	3.29	25.74	4.08	0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1133	1353	10579	26662	-
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)				3.66	28.6	72.14	5.36
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)	101.06-101.56
TEMPERATURE (K)	292.8-302.6
ABS HUMIDITY (kg/kg)	.0097-.0112

FUEL

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

MANUFACTURER: Pratt & Whitney
TEST ORGANIZATION: Pratt & Whitney
TEST LOCATION: East Hartford, Conn, USA
TEST DATES: FROM 15 Jun 96 TO 16 Jun 96

REMARKS

Data from Report PWA-6678

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

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