ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: PW4098   BYPASS RATIO: -
UNIQUE ID NUMBER: 5PW076   PRESSURE RATIO (π_{oo}):   41.37
ENGINE TYPE: TF   RATED OUTPUT (F_{oo}) (kN):   424.1

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.0	10.2	88.2	12.0
AS % OF ORIGINAL LIMIT	0.0 %	8.6 %	71.9 %	75.3 %
AS % OF CAEP/2 LIMIT (NOx)			89.8 %	
AS % OF CAEP/4 LIMIT (NOx)			98.3 %	
AS % OF CAEP/6 LIMIT (NOx)			107.9 %	
AS % OF CAEP/8 LIMIT (NOx)			121.1 %	

DATA STATUS   TEST ENGINE STATUS

    -     PRE-REGULATION   -   NEWLY MANUFACTURED ENGINES
    x   CERTIFICATION   x   DEDICATED ENGINES TO PRODUCTION STANDARD
    -     REVISED (SEE REMARKS)   -   OTHER (SEE REMARKS)

EMISSIONS STATUS   CURRENT ENGINE STATUS

    x   DATA CORRECTED TO REFERENCE   (IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
          (ANNEX 16 VOLUME II)   -   OUT OF PRODUCTION
                                              x   OUT OF SERVICE (DATE: 28-Jun-05)

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	4.138	0	0.16	51.29	6.7
CLIMB OUT	85	2.2	3.245	0	0.21	36.45	7.9
APPROACH	30	4.0	1.075	0	0.7	14.89	2.4
IDLE	7	26.0	0.321	0	6.48	7.78	0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1361	0	3543	32265	–
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)				0	8.35	76.1	9.3
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   FUEL

BAROMETER (kPa)	101.7 – 102.5
TEMPERATURE (K)	284 – 289
ABS HUMIDITY (kg/kg)	.00274 – .00608

SPEC	Jet A
H/C	1.9
AROM (%)	15.5

MANUFACTURER: Pratt and Whitney
TEST ORGANIZATION: Pratt and Whitney
TEST LOCATION: East Hartford, Conn. USA
TEST DATES: FROM   03 Jan 98   TO 04 Jan 98

REMARKS

1. Data from Report PWA-6726-01

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