



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: PW4098
UNIQUE ID NUMBER: 5PW076
COMBUSTOR:
ENGINE TYPE: TF

BYPASS RATIO:
PRESSURE RATIO (π_{00}): 41.4
RATED THRUST (F_{00}) (kN): 424.1

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (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 (NO _x)			89.8	
AS % OF CAEP/4 LIMIT (NO _x)			98.3	
AS % OF CAEP/6 LIMIT (NO _x)			107.9	
AS % OF CAEP/8 LIMIT (NO _x)			121.1	

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: -)
x OUT OF SERVICE (DATE: 2006)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	4.138	0.00	0.16	51.29	6.7
CLIMB OUT	85	2.2	3.245	0.00	0.21	36.45	7.9
APPROACH	30	4.0	1.075	0.00	0.70	14.89	2.4
IDLE	7	26.0	0.321	0.00	6.48	7.78	0.0
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 ₀₀ (g/kN) or AVERAGE SN (MAX)				0.0	8.4	76.1	9.3
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)
STAGE BLEED 0 (% CORE FLOW)

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	101.7-102.5
TEMPERATURE (K)	284-289
ABS HUMIDITY (kg/kg)	0.00274-0.00608

FUEL

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

MANUFACTURER: Pratt & Whitney
TEST ORGANIZATION: Pratt & Whitney
TEST LOCATION: East Hartford, CT
TEST DATES: 03/01/1998-04/01/1998

REMARKS

1. Data from Report PWA-6726-01

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation,
'- ' if information is not available)