



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

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

REGULATORY DATA ** DATA SUPERSEDED ** SEE FOLLOWING UID FOR REVISED DATA: 8PW089

CHARACTERISTIC VALUE:	HC	CO	NO _x	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 (NO _x)			81.0	
AS % OF CAEP/4 LIMIT (NO _x)			91.7	
AS % OF CAEP/6 LIMIT (NO _x)			102.0	
AS % OF CAEP/8 LIMIT (NO _x)			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)
x OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F _{oo})	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	3.411	0.10	0.10	45.00	10.5
CLIMB OUT	85	2.2	2.689	0.10	0.10	35.50	
APPROACH	30	4.0	0.875	0.20	0.40	12.00	
IDLE	7	26.0	0.242	2.70	18.73	4.40	
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)
STAGE BLEED 0 (% CORE FLOW)

AT - POWER SETTINGS
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 & Whitney
TEST ORGANIZATION: Pratt & Whitney
TEST LOCATION: East Hartford, Ct
TEST DATES: 26/04/1994-02/05/1994

REMARKS

1. Data from X832-4

Compliance with Fuel Venting requirements:

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