

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

** DATA SUPERSEDED ** SEE SHEET: 10PW097

ENGINE IDENTIFICATION: PW4077D BYPASS RATIO: 6.6 PRESSURE RATIO $(\pi_{\circ\circ})$: 32.83 3PW064 UNIQUE ID NUMBER: RATED OUTPUT $(F_{\circ \circ})$ (kN): ENGINE TYPE: TF 343

REGULATORY DATA

CHARACTERISTIC VALUE:	НC	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	8.1	45.2	72.8	4.8
AS % OF ORIGINAL LIMIT	41.3 %	38.3 %	68.9 %	28.4 %
AS % OF CAEP/2 LIMIT (NOx)			86.1 %	
AS % OF CAEP/4 LIMIT (NOx)			100.2 %	
AS % OF CAEP/6 LIMIT (NOx)			112.7 %	
AS % OF CAEP/8 LIMIT (NOx)			130.5 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

EMISSIONS STATUS

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

	POWER	TIME	FUEL FLOW	EMI	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	3.082	0.03	0.22	44.74	3.8
CLIMB OUT	85	2.2	2.507	0.04	0.25	35.82	2.9
APPROACH	30	4.0	0.835	0.07	0.6	12.1	0.9
IDLE	7	26.0	0.244	4.66	32.62	3.83	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 1041			1041	1805	12648	21528	_
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)			5.26	36.83	62.76	3.76	
SIGMA (D_p/F_{oo} in g/kN , or SN)			_	_	_	_	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	_	-	_	

ACCESSORY LOADS

0 (kW) % CORE FLOW POWER EXTRACTION AΤ POWER SETTINGS STAGE BLEED POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	101.06-101.56
TEMPERATURE (K)	292.8-302.6
ABS HUMIDITY (kg/kg)	.00970112

FUEL

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

MANUFACTURER: Pratt & Whitney
TEST ORGANIZATION: Pratt & Whitney
TEST LOCATION:

TEST LOCATION: East not seemed from 15 Jun 96 East Hartford, Conn, USA

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)