

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: PW4074D BYPASS RATIO: 6.7 PRESSURE RATIO (π_{oo}) : 31.76 3PW063 UNIQUE ID NUMBER: RATED OUTPUT $(F_{\circ\circ})$ (kN): 333.2 ENGINE TYPE: TF

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	8.9	47.9	69.5	4.4
AS % OF ORIGINAL LIMIT	45.4 %	40.6 %	67.1 %	25.9 %
AS % OF CAEP/2 LIMIT (NOx)			83.9 %	
AS % OF CAEP/4 LIMIT (NOx)			98.6 %	
AS % OF CAEP/6 LIMIT (NOx)			111.2 %	
AS % OF CAEP/8 LIMIT (NOx)			129.6 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE

(ANNEX 16 VOLUME II)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES ×

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

OUT OF PRODUCTION (DATE: -)

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	2.949	0.03	0.23	42.35	-
CLIMB OUT	85	2.2	2.416	0.05	0.25	34.48	_
APPROACH	30	4.0	0.810	0.08	0.64	11.88	_
IDLE	7	26.0	0.239	5.07	34.34	3.81	_
LTO TOTAL FUEL (kg) or EMISSIONS (g) 1010			1010	1926	13036	19971	_
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)			5.76	39.05	59.93	3.38	
SIGMA (D_p/F_{oo} in g/kN , or SN)			1	1	1	_	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	-	-	-	

ACCESSORY LOADS

(kW) % CORE FLOW POWER EXTRACTION 0 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		

MANUFACTURER: Pratt & Whitney TEST ORGANIZATION: Pratt & Whitney TEST ORGANIZATION: East natural East natural

East Hartford, Conn, USA

TO 16 Jun 96

REMARKS

Data from Report PWA-6678

FUEL

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

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

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