

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT8D-217A BYPASS RATIO: 1.73 PRESSURE RATIO $(\pi_{\circ\circ})$: 19.66 UNIQUE ID NUMBER: 4PW069 RATED OUTPUT (Foo) (kN): ENGINE TYPE: MTF 92.74

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.0	48.9	57.3	7.9
AS % OF ORIGINAL LIMIT	0.0 %	41.4 %	72.2 %	32.7 %
AS % OF CAEP/2 LIMIT (NOx)			90.3 %	
AS % OF CAEP/4 LIMIT (NOx)			113.6 %	
AS % OF CAEP/6 LIMIT (NOx)			129.1 %	
AS % OF CAEP/8 LIMIT (NOx)			161.1 %	

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 (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	1.320	0	0.42	17.54	6.1
CLIMB OUT	85	2.2	1.078	0	0.47	13.54	_
APPROACH	30	4.0	0.383	0	3.54	7.66	_
IDLE	7	26.0	0.137	0	15.31	4.57	-
LTO TOTAL FUEL (kg) or EMISSIONS (g) 504			0	3693	4582	-	
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	39.8	49.4	6.1	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$				1	-	_	_
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	-	-	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.8-103.1
TEMPERATURE (K)	271 - 281
ABS HUMIDITY (kg/kg)	.00090047

FUEL

SPEC	Jet A
H/C	-
AROM (%)	18

MANUFACTURER: Pratt & Whitney

TEST ORGANIZATION:

TEST LOCATION: East Hartford, CT

FROM 24 Feb 99 TEST DATES: TO 02 Mar 99

1. Environmental Kit (E-Kit) Combustor and Fuel Nozzles, incorporated 5/99

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

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