

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT9D-7R4H1 BYPASS RATIO: 4.8 PRESSURE RATIO $(\pi_{\circ\circ})$: 26.7 UNIQUE ID NUMBER: 1 PW030 RATED OUTPUT $(F_{\circ \circ})$ (kN): ENGINE TYPE: TF 249.1

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	3.0	21.7	68.2	8.4
AS % OF ORIGINAL LIMIT	15.5 %	18.4 %	73.0 %	45.4 %
AS % OF CAEP/2 LIMIT (NOx)			91.2 %	
AS % OF CAEP/4 LIMIT (NOx)			110.4 %	
AS % OF CAEP/6 LIMIT (NOx)			125.5 %	
AS % OF CAEP/8 LIMIT (NOx)			150.0 %	

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	2.512	0.15	0.74	45.2	7.6
CLIMB OUT	85	2.2	1.999	0.14	0.63	30	_
APPROACH	30	4.0	0.723	0.18	1.39	8.9	_
IDLE	7	26.0	0.245	1.48	11.63	3.8	_
LTO TOTAL FUEL (kg) or EMISSIONS (g) 926			651	4938	15683	-	
NUMBER OF ENGINES				5	5	5	3
NUMBER OF TESTS				6	6	6	3
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			2.7	20.4	65.2	7.6	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1	_	1	_	
RANGE $(D_p/F_{oo} \text{ in g/kN, or SN})$			-	-	-	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	-
TEMPERATURE (K)	271 - 299
ABS HUMIDITY (kg/kg)	-

FUEL

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

MANUFACTURER: Pratt & Whitney

TEST ORGANIZATION:

TEST LOCATION: E Hartford, CT, USA FROM 26 Oct 81

TEST DATES: TO 10 Sep 83

REMARKS

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

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