

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT9D-20J BYPASS RATIO: 5.1 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 1 PW032 23.5 RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 222.4

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	64.7	145.9	79.6	20.8
AS % OF ORIGINAL LIMIT	330.1 %	123.6 %	91.5 %	109.4 %
AS % OF CAEP/2 LIMIT (NOx)			114.4 %	
AS % OF CAEP/4 LIMIT (NOx)			140.6 %	
AS % OF CAEP/6 LIMIT (NOx)			159.8 %	
AS % OF CAEP/8 LIMIT (NOx)			194.3 %	

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	2.315	0	0.9	44.9	-
CLIMB OUT	85	2.2	1.902	0	0.9	34.9	_
APPROACH	30	4.0	0.679	0.5	5.5	9.4	_
IDLE	7	26.0	0.238	24.5	66.7	3.3	_
LTO TOTAL FUEL (kg) or EMISSIONS (g) 883				9178	25974	15885	_
NUMBER OF ENGINES				1	1	1	-
NUMBER OF TESTS				1	1	1	-
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			42	118.9	68.7	16	
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

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

ATMOSPHERIC CONDITIONS

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

MANUFACTURER: Pratt & Whitney

TEST ORGANIZATION:

TEST LOCATION: E Hartford, CT, USA

FROM 16 Sep 80 TEST DATES: TO

REMARKS

FUEL

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

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

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