



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT3D-7 series
UNIQUE ID NUMBER: 1PW002
ENGINE TYPE: TF

BYPASS RATIO: 1.4
PRESSURE RATIO (π_{oo}): 13.4
RATED OUTPUT (F_{oo}) (kN): 84.52

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	452.6	433.9	39.9	66.9
AS % OF ORIGINAL LIMIT	2,309.4 %	367.7 %	59.7 %	270.0 %
AS % OF CAEP/2 LIMIT (NOx)			74.6 %	
AS % OF CAEP/4 LIMIT (NOx)			96.2 %	
AS % OF CAEP/6 LIMIT (NOx)			108.1 %	
AS % OF CAEP/8 LIMIT (NOx)			140.1 %	

DATA STATUS

x PRE-REGULATION
- CERTIFICATION
- REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
x DEDICATED ENGINES TO PRODUCTION STANDARD
- OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
x OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE

MEASURED DATA

MODE	POWER SETTING (% F_{oo})	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NOx	
TAKE-OFF	100	0.7	1.254	0.5	0.89	12.69	-
CLIMB OUT	85	2.2	1.032	0.4	1.9	9.59	-
APPROACH	30	4.0	0.389	2.1	19.5	5.3	-
IDLE	7	26.0	0.128	123	138.99	2.2	-
LTO TOTAL FUEL (kg) or EMISSIONS (g)			482	24838	29880	2909	-
NUMBER OF ENGINES				-	-	-	-
NUMBER OF TESTS				-	-	-	-
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				293.9	353.5	34.4	52
SIGMA (D_p/F_{oo} in g/kN, or SN)				-	-	-	-
RANGE (D_p/F_{oo} in g/kN, or SN)				-	-	-	-

ACCESSORY LOADS

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

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

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

FUEL

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

MANUFACTURER: Pratt & Whitney
TEST ORGANIZATION: P&WA
TEST LOCATION: East Hartford, CT, USA.
TEST DATES: FROM 00 Jan 00 TO -

REMARKS

1. Combustor 14-57D.
2. Applicable to JT3D-7, -7A

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

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