



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT3D-7 series
UNIQUE ID NUMBER: 1PW003
ENGINE TYPE: TF

BYPASS RATIO: 1.4
PRESSURE RATIO (π_{00}): 13.4
RATED OUTPUT (F_{00}) (kN): 84.52

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{00} (g/kN) or SN	220.2	229.5	59.7	23.2
AS % OF ORIGINAL LIMIT	1,123.7 %	194.5 %	89.4 %	93.5 %
AS % OF CAEP/2 LIMIT (NOx)			111.7 %	
AS % OF CAEP/4 LIMIT (NOx)			144.0 %	
AS % OF CAEP/6 LIMIT (NOx)			161.9 %	
AS % OF CAEP/8 LIMIT (NOx)			209.7 %	

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_{00})	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NOx	
TAKE-OFF	100	0.7	1.254	-	-	-	-
CLIMB OUT	85	2.2	1.032	-	-	-	-
APPROACH	30	4.0	0.389	-	-	-	-
IDLE	7	26.0	0.128	-	-	-	-
LTO TOTAL FUEL (kg) or EMISSIONS (g)			482	0	0	0	-
NUMBER OF ENGINES				-	-	-	-
NUMBER OF TESTS				-	-	-	-
AVERAGE D_p/F_{00} (g/kN) or AVERAGE SN (MAX)				143	187	51.5	18
SIGMA (D_p/F_{00} in g/kN, or SN)				-	-	-	-
RANGE (D_p/F_{00} 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

- Smoke fix combustor 14-70KC.
- 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)