



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT3D-7 series
UNIQUE ID NUMBER: 1PW002
COMBUSTOR: 14-57D
ENGINE TYPE: TF

BYPASS RATIO: 1.4
PRESSURE RATIO (π_{oo}): 13.4
RATED THRUST (F_{oo}) (kN): 84.5

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	452.6	433.9	39.9	66.9
AS % OF ORIGINAL LIMIT	2309.4	367.7	59.7	270.0
AS % OF CAEP/2 LIMIT (NO _x)			74.6	
AS % OF CAEP/4 LIMIT (NO _x)			96.2	
AS % OF CAEP/6 LIMIT (NO _x)			108.1	
AS % OF CAEP/8 LIMIT (NO _x)			140.1	

DATA STATUS

x PRE-REGULATION
- CERTIFICATION
x 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 (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F _{oo})	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	1.254	0.50	0.89	12.69	
CLIMB OUT	85	2.2	1.032	0.40	1.90	9.59	
APPROACH	30	4.0	0.389	2.10	19.50	5.30	
IDLE	7	26.0	0.128	123.00	138.99	2.20	
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	52.0
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) AT - POWER SETTINGS
STAGE BLEED 0 (% CORE FLOW) 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
TEST DATES:

REMARKS

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

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)