



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT15D-4 series
UNIQUE ID NUMBER: 1PW036
COMBUSTOR:
ENGINE TYPE: TF
BYPASS RATIO: 2.7
PRESSURE RATIO (π_{00}): 10.1
RATED THRUST (F_{00}) (kN): 11.1

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	235.4	492.6	42.6	18.1
AS % OF ORIGINAL LIMIT				
AS % OF CAEP/2 LIMIT (NO _x)				
AS % OF CAEP/4 LIMIT (NO _x)				
AS % OF CAEP/6 LIMIT (NO _x)				
AS % OF CAEP/8 LIMIT (NO _x)				

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 ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	0.170	0.09	2.10	9.23	14.1
CLIMB OUT	85	2.2	0.143	0.19	3.18	8.56	
APPROACH	30	4.0	0.059	5.15	32.00	5.29	
IDLE	7	26.0	0.026	40.00	97.00	2.63	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			81	1706	4478	409	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				1	1	1	1
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				152.8	401.3	36.8	14.1
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)	103.1
TEMPERATURE (K)	257
ABS HUMIDITY (kg/kg)	0.0015

FUEL

SPEC	Jet A-1
H/C	1.85
AROM (%)	20

MANUFACTURER: Pratt & Whitney Canada
TEST ORGANIZATION: Pratt & Whitney Canada
TEST LOCATION: Longueuil, Quebec
TEST DATES: 01/02/1973

REMARKS

1. Not required to meet GASEOUS emissions regulations.
2. Applicable to JT15D-4, -4B, -4C, -4D

Compliance with Fuel Venting requirements:

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