ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	JT3D-3B	BYPASS RATIO:	1.4
UNIQUE ID NUMBER:	1PW001	PRESSURE RATIO (π_{oo}):	13.6
COMBUSTOR:			
ENGINE TYPE:	TF	RATED THRUST (F_{oo}) (kN):	80.1

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO_X	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	395.4	328.2	37.7	63.9
AS % OF ORIGINAL LIMIT	2017.6	278.2	56.1	254.1
AS % OF CAEP/2 LIMIT (NO_X)			70.2	
AS % OF CAEP/4 LIMIT (NO_X)			88.3	
AS % OF CAEP/6 LIMIT (NO_X)			98.1	
AS % OF CAEP/8 LIMIT (NO_X)			123.7	

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)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO_X	
TAKE-OFF	100	0.7	1.174	4.00	1.50	12.10	
CLIMB OUT	85	2.2	0.932	2.00	2.80	9.90	
APPROACH	30	4.0	0.346	4.00	24.50	4.80	
IDLE	7	26.0	0.135	112.00	98.00	2.50	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			466	24363	23092	2740	−
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS							
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				303.9	288.1	34.3	54.5
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:	08/03/1972-12/09/1974

REMARKS

    1. Emissions data estimated from JT3D-7 engines using JT3D-3B performance data.

Compliance with Fuel Venting requirements: −   ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)