



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2A3
UNIQUE ID NUMBER: 2GE038
COMBUSTOR: 1862M39
ENGINE TYPE: TF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{00}): 31.1
RATED THRUST (F_{00}) (kN): 262.2

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	2.6	28.0	50.6	8.1
AS % OF ORIGINAL LIMIT	13.2	23.7	49.5	44.5
AS % OF CAEP/2 LIMIT (NO _x)			61.9	
AS % OF CAEP/4 LIMIT (NO _x)			73.2	
AS % OF CAEP/6 LIMIT (NO _x)			82.8	
AS % OF CAEP/8 LIMIT (NO _x)			96.8	

DATA STATUS

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

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
- 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	2.516	0.04	0.06	27.68	6.9
CLIMB OUT	85	2.2	2.041	0.05	0.04	21.05	5.0
APPROACH	30	4.0	0.662	0.11	1.98	12.48	0.0
IDLE	7	26.0	0.203	1.54	19.32	4.72	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			851	523	6450	12074	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				4	4	4	4
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				2.0	24.6	46.0	6.9
SIGMA (D _p /F ₀₀ in g/kN, or SN)				0.2	1.2	0.6	0.9
RANGE (D _p /F ₀₀ in g/kN, or SN)				1.85-2.34	23.4-26.3	45.5-46.8	5.8-8

ACCESSORY LOADS

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

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.6-98.2
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	0.00457-0.00743

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: General Electric Company
TEST ORGANIZATION: CF6 Eval Engineering
TEST LOCATION: Site IIIB, PTO Peebles
TEST DATES: 13/01/1995-17/01/1995

REMARKS

1. Ref GE report TM95-17.
2. Engine S/N 704/233 & 704/234
3. 1862M39 combustor

Compliance with Fuel Venting requirements:

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