

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2A3 BYPASS RATIO: 5.1 UNIQUE ID NUMBER: 2GE038 PRESSURE RATIO (π_{oo}) : 31.09 ENGINE TYPE: TF RATED OUTPUT (F_{oo}) (kN): 262.22

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (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 (NOx)			61.9 %	
AS % OF CAEP/4 LIMIT (NOx)			73.2 %	
AS % OF CAEP/6 LIMIT (NOx)			82.8 %	
AS % OF CAEP/8 LIMIT (NOx)			96.8 %	

DATA STATUS

- PRE-REGULATION

x CERTIFICATION

- REVISED (SEE REMARKS)

- REVISE

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE

(ANNEX 16 VOLUME II)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES

- DEDICATED ENGINES TO PRODUCTION STANDARD

- OTHER (SEE REMARKS)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

x OUT OF PRODUCTION (DATE: -)

- OUT OF SERVICE

MEASURED DATA

	POWER	TIME	FUEL FLOW	EMIS	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
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
APPROACH	30	4.0	0.662	0.11	1.98	12.48	0
IDLE	7	26.0	0.203	1.54	19.32	4.72	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 _{oo} (g/kN) or AVERAGE SN (MAX)				1.99	24.58	46.03	6.9
SIGMA (D_p/F_{oo} in g/kN , or SN)				0.22	1.19	0.56	0.91
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1.85-2.34	23.4-26.3	45.5-46.8	5.8-8.0	

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS STAGE BLEED 0 % CORE FLOW AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.61-98.15
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	.0045700743

FUEL

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

MANUFACTURER: G

TEST ORGANIZATION: CF6 Eval Engineering
TEST LOCATION: Site IIIB, PT0 Peebles

TEST DATES: FROM 13 Jan 95 TO 17 Jan 95

REMARKS

1. Ref GE report TM95-17.

2. Engine S/N 704/233 & 704/234

3. 1862M39 combustor

If REVISED, this data supersedes databank UID Compliance with fuel venting requirements:

0 ('x' if complies, PR if pre-regulation)