

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B6 BYPASS RATIO: 5.1 UNIQUE ID NUMBER: 2GE044 PRESSURE RATIO (π_{oo}) : 31.66 ENGINE TYPE: TF RATED OUTPUT (F_{oo}) (kN): 267.2

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	2.5	27.1	52.0	8.1
AS % OF ORIGINAL LIMIT	12.6 %	23.0 %	50.3 %	44.8 %
AS % OF CAEP/2 LIMIT (NOx)			62.9 %	
AS % OF CAEP/4 LIMIT (NOx)			74.0 %	
AS % OF CAEP/6 LIMIT (NOx)			83.5 %	
AS % OF CAEP/8 LIMIT (NOx)			97.3 %	

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)

- OUT OF PRODUCTION - 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	2.580	0.04	0.06	28.57	6.9
CLIMB OUT	85	2.2	2.096	0.05	0.04	21.69	5.4
APPROACH	30	4.0	0.672	0.11	1.91	12.53	0
IDLE	7	26.0	0.205	1.48	18.89	4.76	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 866			509	6367	12640	-	
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)			1.9	23.8	47.3	6.9	
SIGMA (D_p/F_{oo} in g/kN , or SN)			0.209	1.196	0.5	0.914	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1.76-2.24	22.6-25.5	46.7-47.9	5.9-8.2	

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: GI

TEST ORGANIZATION: CF6 Eval Engineering
TEST LOCATION: Site IIIB, PTO 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

4. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.

5. NOx levels in accordance with Part III, Chapter 2, 2.3.2 e) $\,$

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

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