

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B8F BYPASS RATIO: 5.1 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 8GE101 31.37 RATED OUTPUT $(F_{\circ \circ})$ (kN): ENGINE TYPE: TF 267

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	1.7	22.7	48.4	6.4
AS % OF ORIGINAL LIMIT	8.8 %	19.2 %	47.1 %	35.5 %
AS % OF CAEP/2 LIMIT (NOx)			58.8 %	
AS % OF CAEP/4 LIMIT (NOx)			69.3 %	
AS % OF CAEP/6 LIMIT (NOx)			78.4 %	
AS % OF CAEP/8 LIMIT (NOx)			91.5 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES x

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

EMISSIONS STATUS

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	EMI	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	2.583	0.04	0.03	26.85	5.84
CLIMB OUT	85	2.2	2.106	0.04	0.02	20.84	4.21
APPROACH	30	4.0	0.685	0.09	1.69	12.42	0
IDLE	7	26.0	0.205	1.14	16.69	4.59	0
LTO TOTAL FUE	L (kg) or EMIS	SIONS (g)	870	394	5615	12213	-
NUMBER OF ENG	INES			3	3	3	3
NUMBER OF TESTS			7	7	7	7	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			1.48	21	45.65	5.84	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1	-	1	_	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	-	-	-	

ACCESSORY LOADS

(kW) POWER EXTRACTION 0 ΑT All POWER SETTINGS STAGE BLEED % CORE FLOW All POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97-98
TEMPERATURE (K)	279.8-293
ABS HUMIDITY (kg/kg)	0.00434-0.00743

FUEL

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

MANUFACTURER:

TEST ORGANIZATION: CF6 Eval Engineering TEST LOCATION: PTO Site 3B Peebles

FROM 13 Jan 96 TO 16 Mar 96 TEST DATES:

REMARKS

1. Ref GE Report R98AEB212

2. Engine S/N 704234, 704233 and 704378

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:

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