

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF34-8C5A1 BYPASS RATIO: 5.13 PRESSURE RATIO $(\pi_{\circ\circ})$: 23.49 UNIQUE ID NUMBER: 8GE107 ENGINE TYPE: TF RATED OUTPUT (Foo) (kN): 60.62

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.5	41.5	43.7	12.8
AS % OF ORIGINAL LIMIT	2.3 %	35.2 %	50.3 %	47.2 %
AS % OF CAEP/2 LIMIT (NOx)			62.8 %	
AS % OF CAEP/4 LIMIT (NOx)			70.0 %	
AS % OF CAEP/6 LIMIT (NOx)			74.4 %	
AS % OF CAEP/8 LIMIT (NOx)			83.4 %	

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	0.665	0.02	0.66	15.09	9.96
CLIMB OUT	85	2.2	0.543	0.02	0.57	12.82	2.66
APPROACH	30	4.0	0.183	0.06	4.17	10.87	0
IDLE	7	26.0	0.065	0.13	17.85	4.65	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 245			18	2051	2287	-	
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS			3	3	3	3	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			0.3	33.83	37.73	9.96	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			ı	-	-	-	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	-	-	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.1 to 98.1
TEMPERATURE (K)	284 to 292
ABS HUMIDITY (kg/kg)	0.00470 to 0.00727

FUEL

SPEC	Jet A
H/C	1.937
AROM (%)	18

MANUFACTURER:

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

FROM 27 Jan 02 TO 28 Jan 02 TEST DATES:

REMARKS

1. Ref. GE REPORT R2001AE078

2. Engine S/N 193111

3. Data corrected per ICAO Annex 16, Vol 2, Part III, Appendix 3

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)