

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF34-8C1 Block 1 BYPASS RATIO: 5.13 PRESSURE RATIO $(\pi_{\circ\circ})$: 22.15 UNIQUE ID NUMBER: 6GE096 RATED OUTPUT $(F_{\circ \circ})$ (kN): ENGINE TYPE: TF 56.36

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.5	52.5	40.9	6.7
AS % OF ORIGINAL LIMIT	2.6 %	44.5 %	48.5 %	24.2 %
AS % OF CAEP/2 LIMIT (NOx)			60.6 %	
AS % OF CAEP/4 LIMIT (NOx)			71.3 %	
AS % OF CAEP/6 LIMIT (NOx)			70.3 %	
AS % OF CAEP/8 LIMIT (NOx)			78.4 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE

(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

FUEL

(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	0.608	0.02	0.59	13.82	5.2
CLIMB OUT	85	2.2	0.479	0.03	0.57	12	1.25
APPROACH	30	4.0	0.170	0.07	4.67	9.85	0
IDLE	7	26.0	0.070	0.13	19.73	4.03	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 239				20	2406	1956	-
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	42.8	35.2	5.2	
SIGMA (D_p/F_{oo} in g/kN , or SN)			_	-	1	_	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			0.3 - 0.4	41.5 - 44.5	35.0 - 35.7	2.5 - 7.2	

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AΤ POWER SETTINGS % CORE FLOW POWER SETTINGS

ATMOSPHERIC CONDITIONS

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

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

MANUFACTURER: GE Aircraft Engines TEST ORGANIZATION: Peebles Test Operation

Peebles, Ohio

TEST LOCATION: Peebloo, FROM 27 Jan 02 TO 28 Jan 02

REMARKS

- 1. GE Report R2001AE078
- 2. Engine S/N 193111
- 3. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
- 4. 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)