



**ICAO ENGINE EXHAUST EMISSIONS DATA BANK** 

# SUBSONIC ENGINES

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

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	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
- х CERTIFICATION
- REVISED (SEE REMARKS)

#### EMISSIONS STATUS

#### DATA CORRECTED TO REFERENCE х (ANNEX 16 VOLUME II)

#### TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES x
- \_ DEDICATED ENGINES TO PRODUCTION STANDARD
- \_ OTHER (SEE REMARKS)

## 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 <sub>00</sub> )						
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)				-	-	-	-
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)	AT	-	POWER SETTINGS
STAGE BLEED	0	% CORE FLOW	AT	-	POWER SETTINGS

ATMOSPHERIC CONDITIONS

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

MANUFACTURER:	GE Aircraft Engines	
TEST ORGANIZATION:	Peebles Test Operation	
TEST LOCATION:	Peebles, Ohio	
TEST DATES:	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:

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

Jet A 1.937

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-		1	Ι
-	0.4	41.5 - 44.5	35.0 - 35

FUEL

SPEC

H/C AROM (%)