

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF34-8E6 BYPASS RATIO: 5.13 UNIQUE ID NUMBER: 8GE109 PRESSURE RATIO (π_{oo}) : 23.18 ENGINE TYPE: TF RATED OUTPUT (F_{oo}) (kN): 59.68

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.5	42.5	43.2	11.1
AS % OF ORIGINAL LIMIT	2.4 %	36.0 %	50.0 %	40.7 %
AS % OF CAEP/2 LIMIT (NOx)			62.5 %	
AS % OF CAEP/4 LIMIT (NOx)			69.4 %	
AS % OF CAEP/6 LIMIT (NOx)			73.6 %	
AS % OF CAEP/8 LIMIT (NOx)			82.5 %	

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)

x OUT OF PRODUCTION (DATE: -)

- 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	0.652	0.02	0.64	14.77	8.63
CLIMB OUT	85	2.2	0.533	0.02	0.57	12.65	2.24
APPROACH	30	4.0	0.180	0.06	4.23	10.77	0
IDLE	7	26.0	0.064	0.13	18.16	4.61	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 241			18	2066	2223	_	
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)			0.31	34.62	37.25	8.63	
SIGMA (D_p/F_{oo} in g/kN , or SN)			1	_	1	_	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	-	-	-	

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS STAGE BLEED 0 % CORE FLOW AT - 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: G

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

TEST DATES: FROM 27 Jan 02 TO 28 Jan 02

REMARKS

1. Ref. GE REPORT R2001AE078

2. Engine S/N 193111

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

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

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