

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF34-8E2A1 BYPASS RATIO: 5.13 UNIQUE ID NUMBER: 8GE111 PRESSURE RATIO (π_{oo}) : 23 ENGINE TYPE: TF RATED OUTPUT (F_{oo}) (kN): 59.15

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.5	43.1	42.9	10.3
AS % OF ORIGINAL LIMIT	2.5 %	36.5 %	49.8 %	37.7 %
AS % OF CAEP/2 LIMIT (NOx)			62.3 %	
AS % OF CAEP/4 LIMIT (NOx)			69.1 %	
AS % OF CAEP/6 LIMIT (NOx)			73.2 %	
AS % OF CAEP/8 LIMIT (NOx)			82.1 %	

DATA STATUS

- PRE-REGULATION

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	0.644	0.02	0.64	14.61	8.01
CLIMB OUT	85	2.2	0.527	0.02	0.57	12.55	2
APPROACH	30	4.0	0.179	0.06	4.26	10.72	0
IDLE	7	26.0	0.064	0.14	18.36	4.59	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 240				19	2077	2188	-
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	35.12	36.98	8.01
SIGMA (D_p/F_{oo} in g/kN , or SN)				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: GI

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)