

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF34-8E5A2 BYPASS RATIO: 5.13 PRESSURE RATIO $(\pi_{\circ\circ})$: 24.82 UNIQUE ID NUMBER: 8GE102 RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 64.53

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.4	38.0	46.1	22.2
AS % OF ORIGINAL LIMIT	2.2 %	32.2 %	51.4 %	83.3 %
AS % OF CAEP/2 LIMIT (NOx)			64.2 %	
AS % OF CAEP/4 LIMIT (NOx)			72.2 %	
AS % OF CAEP/6 LIMIT (NOx)			77.4 %	
AS % OF CAEP/8 LIMIT (NOx)			87.4 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE (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 (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	0.721	0.02	0.77	16.71	17.27
CLIMB OUT	85	2.2	0.586	0.02	0.57	13.52	4.4
APPROACH	30	4.0	0.193	0.06	3.92	11.09	0
IDLE	7	26.0	0.067	0.12	16.71	4.76	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 259				18	1999	2565	-
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)			0.27	30.97	39.75	17.27	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$				1	-	1	_
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	-	-	-	

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) ΑT POWER SETTINGS % 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 TEST DATES: 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)