

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

** DATA SUPERSEDED ** SEE SHEET: 8GE113

ENGINE IDENTIFICATION: CF34-8E2 BYPASS RATIO: 5.13 PRESSURE RATIO (π_{oo}) : 21.71 6GE093 UNIQUE ID NUMBER: RATED OUTPUT $(F_{\circ\circ})$ (kN): 55.19 ENGINE TYPE: TF

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.6	48.2	40.7	5.9
AS % OF ORIGINAL LIMIT	3.1 %	40.8 %	48.8 %	21.2 %
AS % OF CAEP/2 LIMIT (NOx)			61.0 %	
AS % OF CAEP/4 LIMIT (NOx)			66.9 %	
AS % OF CAEP/6 LIMIT (NOx)			70.4 %	
AS % OF CAEP/8 LIMIT (NOx)			78.3 %	

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

(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	0.591	0.02	0.59	13.6	4.58
CLIMB OUT	85	2.2	0.485	0.03	0.58	11.82	0.92
APPROACH	30	4.0	0.168	0.07	4.52	10.29	0
IDLE	7	26.0	0.062	0.16	20.01	4.45	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 226			226	21	2169	1939	_
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)			0.38	39.28	35.14	4.58	
SIGMA (D_p/F_{oo} in g/kN , or SN)			ı	-	-	-	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	-	-	_	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.1 - 98.1
TEMPERATURE (K)	284 - 292
ABS HUMIDITY (kg/kg)	.0047000727

FUEL

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

MANUFACTURER: GE Aircraft Engines MANUFACTURER: GE AIRCRAFT EngineS
TEST ORGANIZATION: Peebles Test Organisation TEST LOCATION: Peebles,
FROM 27 Jan 02

Peebles, Ohio

TO 28 Jan 02

REMARKS

1. GE Report R2001AE078

2. Engine S/N 193111

3. LEC combustor

4. Minor change to climb SN (0.92 to 0.87) in Issue 15

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

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