

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

** DATA SUPERSEDED ** SEE SHEET: 8GE110

ENGINE IDENTIFICATION: CF34-8C5 BYPASS RATIO: 5.13 PRESSURE RATIO $(\pi_{\circ\circ})$: 23.09 6GE092 UNIQUE ID NUMBER: RATED OUTPUT $(F_{\circ\circ})$ (kN): 59.42 ENGINE TYPE: TF

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.5	42.8	43.0	10.7
AS % OF ORIGINAL LIMIT	2.6 %	36.3 %	49.9 %	39.2 %
AS % OF CAEP/2 LIMIT (NOx)			62.4 %	
AS % OF CAEP/4 LIMIT (NOx)			69.2 %	
AS % OF CAEP/6 LIMIT (NOx)			73.4 %	
AS % OF CAEP/8 LIMIT (NOx)			82.2 %	

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	0.648	0.02	0.64	14.69	8.32
CLIMB OUT	85	2.2	0.530	0.02	0.57	12.6	2.52
APPROACH	30	4.0	0.179	0.06	4.24	10.75	0
IDLE	7	26.0	0.064	0.13	18.25	4.6	0
LTO TOTAL FUE	L (kg) or EMIS	SIONS (g)	240	18	2070	2205	-
NUMBER OF ENG	INES			1	1	1	1
NUMBER OF TEST	rs			3	3	3	3
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			0.31	34.86	37.12	8.32	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1	1	1	-	
RANGE (D _p /F _{oo} in g/kN, or SN)		-	-	=	-		

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

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

Ľί	JĿ	ш

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

MANUFACTURER: GE Aircraft Engines
TEST ORGANIZATION: Peebles Test Operation
TEST LOCATION:

Peebles, Ohio

TEST ORGANIZATION: Peeples, ...
FROM 27 Jan 02 TO 28 Jan 02

REMARKS

1. GE Report R2001AE078

2. Engine S/N 193111

3. LEC combustor

4. Minor change to climb SN (2.52 to 2.12) in Issue 15

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

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