

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

** DATA SUPERSEDED ** SEE SHEET: 8GE105

ENGINE IDENTIFICATION: CF34-8E5A1 BYPASS RATIO: 5.13 PRESSURE RATIO $(\pi_{\circ\circ})$: 24.12 6GE095 UNIQUE ID NUMBER: RATED OUTPUT $(F_{\circ\circ})$ (kN): 62.49 ENGINE TYPE: TF

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.4	39.8	44.9	17.6
AS % OF ORIGINAL LIMIT	2.0 %	33.7 %	50.9 %	65.4 %
AS % OF CAEP/2 LIMIT (NOx)			63.6 %	
AS % OF CAEP/4 LIMIT (NOx)			71.1 %	
AS % OF CAEP/6 LIMIT (NOx)			75.9 %	
AS % OF CAEP/8 LIMIT (NOx)			85.4 %	

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	0.691	0.02	0.71	15.81	13.64
CLIMB OUT	85	2.2	0.563	0.02	0.57	13.15	3.9
APPROACH	30	4.0	0.188	0.06	4.05	11.06	0
IDLE	7	26.0	0.066	0.13	17.3	4.7	0
LTO TOTAL FUE	L (kg) or EMIS	SIONS (g)	251	18	2027	2419	_
NUMBER OF ENG	INES			1	1	1	1
NUMBER OF TESTS			3	3	3	3	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			0.29	32.43	38.71	13.64	
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)
STAGE BLEED 0 % CORE FLOW AΤ POWER SETTINGS POWER SETTINGS

ATMOSPHERIC CONDITIONS

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

TO	TITLE
£	UEL

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

MANUFACTURER: GE Aircraft Engines
TEST ORGANIZATION: Peebles Test Organisation
TEST LOCATION: TEST ORGANIZATION: Peeples, ...
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 (3.9 to 3.49) in Issue 15

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

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