



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF34-3B
UNIQUE ID NUMBER: 5GE084
ENGINE TYPE: TF

BYPASS RATIO: 6.25
PRESSURE RATIO (π_{00}): 19.3
RATED OUTPUT (F_{00}) (kN): 41.01

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{00} (g/kN) or SN	13.7	110.1	30.5	23.6
AS % OF ORIGINAL LIMIT	69.9 %	93.3 %	38.8 %	78.1 %
AS % OF CAEP/2 LIMIT (NOx)			48.5 %	
AS % OF CAEP/4 LIMIT (NOx)			50.9 %	
AS % OF CAEP/6 LIMIT (NOx)			52.1 %	
AS % OF CAEP/8 LIMIT (NOx)			56.4 %	

DATA STATUS

- PRE-REGULATION
x 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)
- OUT OF PRODUCTION
- OUT OF SERVICE

MEASURED DATA

MODE	POWER SETTING (% F_{00})	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NOx	
TAKE-OFF	100	0.7	0.399	0.06	0	11.28	18.3
CLIMB OUT	85	2.2	0.329	0.05	0	9.68	9.2
APPROACH	30	4.0	0.116	0.13	1.88	6.63	3.1
IDLE	7	26.0	0.049	4.69	47.59	3.72	3.1
LTO TOTAL FUEL (kg) or EMISSIONS (g)			164	366	3683	1078	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D_p/F_{00} (g/kN) or AVERAGE SN (MAX)				8.9	89.7	26.3	18.3
SIGMA (D_p/F_{00} in g/kN, or SN)				-	-	-	-
RANGE (D_p/F_{00} in g/kN, or SN)				-	-	-	-

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	101.6-102.9
TEMPERATURE (K)	275.5-281.1
ABS HUMIDITY (kg/kg)	.0016-.0039

FUEL

SPEC	Jet A
H/C	1.92
AROM (%)	20.3

MANUFACTURER: GE
TEST ORGANIZATION: GE Aircraft Engines, Lynn, MA
TEST LOCATION: Lynn Cell 121
TEST DATES: FROM 21 Mar 91 TO 25 Mar 91

REMARKS

1. Ref. GE Report R95AEB012
2. Engine S/N 807-005
3. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
4. NOx levels in accordance with Part III, Chapter 2, 2.3.2 e)

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

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