

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B5F BYPASS RATIO: 5.1 UNIQUE ID NUMBER: 3GE057 PRESSURE RATIO $(\pi_{\circ\circ})$: 32.82 ENGINE TYPE: TF RATED OUTPUT $(F_{\circ\circ})$ (kN): 272.53

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	2.2	24.8	53.0	8.7
AS % OF ORIGINAL LIMIT	11.2 %	21.0 %	50.2 %	48.4 %
AS % OF CAEP/2 LIMIT (NOx)			62.7 %	
AS % OF CAEP/4 LIMIT (NOx)			73.0 %	
AS % OF CAEP/6 LIMIT (NOx)			82.0 %	
AS % OF CAEP/8 LIMIT (NOx)			95.1 %	

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

	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	2.685	0.05	0.05	28.58	7.4
CLIMB OUT	85	2.2	2.162	0.05	0.04	21.76	5.2
APPROACH	30	4.0	0.697	0.11	1.83	12.74	0
IDLE	7	26.0	0.206	1.31	17.45	4.91	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 887			459	5931	13142	_	
NUMBER OF ENGINES			2	2	2	2	
NUMBER OF TESTS			4	4	4	4	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			1.67	21.75	48.22	7.4	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1	_	1	_	
RANGE $(D_p/F_{oo} \text{ in g/kN, or SN})$			-	-	1	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.61-98.15		
TEMPERATURE (K)	279-293		
ABS HUMIDITY (kg/kg)	.00460074		

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: GE

TEST ORGANIZATION: CF6 Ecval Engineering

TEST LOCATION: Site IIIB, PTO, Peebles, Ohio, USA
TEST DATES: FROM 13 Jan 95 TO 17 Jan 95

REMARKS

1. GE Report TM95-17.

2. Engine S/N 704/223 & 704/234

3. 1862M39 combustor

4. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.

5. 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)