

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B2 BYPASS RATIO: 5.1 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 2GE042 27.53 RATED OUTPUT $(F_{\circ \circ})$ (kN): ENGINE TYPE: TF 231.08

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	3.5	34.7	43.7	6.6
AS % OF ORIGINAL LIMIT	17.7 %	29.4 %	45.9 %	34.9 %
AS % OF CAEP/2 LIMIT (NOx)			57.4 %	
AS % OF CAEP/4 LIMIT (NOx)			69.2 %	
AS % OF CAEP/6 LIMIT (NOx)			78.7 %	
AS % OF CAEP/8 LIMIT (NOx)			93.7 %	

DATA STATUS

PRE-REGIILATION

CERTIFICATION

REVISED (SEE REMARKS)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES x

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 OUT OF SERVICE

MEASURED DATA

	POWER	TIME	FUEL FLOW	EMIS	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	2.124	0.05	0.04	22.02	5.6
CLIMB OUT	85	2.2	1.756	0.05	0.05	18.25	3.1
APPROACH	30	4.0	0.585	0.12	2.61	11.79	0
IDLE	7	26.0	0.190	1.97	22.41	4.45	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 758			617	7024	9169	-	
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)			2.67	30.46	39.7	5.6	
SIGMA (D_p/F_{oo} in g/kN , or SN)			0.34	1.48	0.234	0.608	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			2.43-3.15	29.3-32.4	39.4-40.0	5.0-6.4	

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) ΑT POWER SETTINGS % CORE FLOW POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.61-98.15		
TEMPERATURE (K)	279-293		
ABS HUMIDITY (kg/kg)	.0045700743		

FUEL

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

MANUFACTURER:

TEST ORGANIZATION: CF6 Eval Engineering TEST LOCATION: Site IIIB, PTO Peebles

TO 17 Jan 95 FROM 13 Jan 95 TEST DATES:

REMARKS

1. Ref GE report TM95-17.

2. Engine S/N 704/233 & 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:

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