

# ICAO ENGINE EXHAUST EMISSIONS DATA BANK

## **SUBSONIC ENGINES**

ENGINE IDENTIFICATION: CF6-80C2B6F BYPASS RATIO: 5.1 PRESSURE RATIO  $(\pi_{\circ\circ})$ : UNIQUE ID NUMBER: 2GE048 31.72 RATED OUTPUT  $(F_{\circ \circ})$  (kN): ENGINE TYPE: TF 267.03

#### REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
$D_p/F_{oo}$ (g/kN) or SN	2.4	26.3	51.1	8.1
AS % OF ORIGINAL LIMIT	12.1 %	22.2 %	49.4 %	44.7 %
AS % OF CAEP/2 LIMIT (NOx)			61.8 %	
AS % OF CAEP/4 LIMIT (NOx)			72.6 %	
AS % OF CAEP/6 LIMIT (NOx)			82.0 %	
AS % OF CAEP/8 LIMIT (NOx)			95.4 %	

#### DATA STATUS

PRE-REGULATION

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	EMI	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F <sub>00</sub> )						
TAKE-OFF	100	0.7	2.594	0.05	0.05	27.38	6.9
CLIMB OUT	85	2.2	2.104	0.05	0.04	21.05	5.3
APPROACH	30	4.0	0.682	0.11	1.93	12.63	0
IDLE	7	26.0	0.203	1.43	18.42	4.81	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 867				490	6166	12420	_
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS			4	4	4	4	
AVERAGE D <sub>p</sub> /F <sub>oo</sub> (g/kN) or AVERAGE SN (MAX)			1.83	23.04	46.51	6.9	
SIGMA ( $D_p/F_{oo}$ in $g/kN$ , or $SN$ )			0.207	1.19	0.351	0.915	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1.68-2.16	21.9-24.7	46.0-46.8	5.9-8.2	

# 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

FROM 13 Jan 95 TO 17 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)