

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2A5 BYPASS RATIO: 5.1 PRESSURE RATIO $(\pi_{\circ\circ})$: 31.66 UNIQUE ID NUMBER: 2GE039 RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 267.34

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	2.5	27.1	52.0	8.1
AS % OF ORIGINAL LIMIT	12.6 %	23.0 %	50.3 %	44.8 %
AS % OF CAEP/2 LIMIT (NOx)			62.9 %	
AS % OF CAEP/4 LIMIT (NOx)			73.9 %	
AS % OF CAEP/6 LIMIT (NOx)			83.5 %	
AS % OF CAEP/8 LIMIT (NOx)			97.3 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE

(ANNEX 16 VOLUME II)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES ×

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

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	2.580	0.04	0.06	28.57	6.94
CLIMB OUT	85	2.2	2.096	0.05	0.04	21.69	5.4
APPROACH	30	4.0	0.672	0.11	1.91	12.53	0
IDLE	7	26.0	0.205	1.48	18.89	4.76	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 866			509	6367	12640	_	
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)			1.9	23.78	47.28	6.9	
SIGMA (D_p/F_{oo} in g/kN , or SN)			0.209	1.96	0.5	0.91	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1.76-2.24	22.6-25.5	46.7-47.9	5.9-8.2	

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) POWER SETTINGS STAGE BLEED % 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:

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

FROM 13 Jan 95 TEST DATES: TO 17 Jan 95

REMARKS

1. Ref GE report TM95-17.

Engine S/N 704/233 & 704/234
1862M39 combustor

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

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