

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B4F BYPASS RATIO: 5.1 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 1GE028 30.17 RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 254.79

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	16.2	63.7	45.9	8.6
AS % OF ORIGINAL LIMIT	82.8 %	54.0 %	45.7 %	46.7 %
AS % OF CAEP/2 LIMIT (NOx)			57.2 %	
AS % OF CAEP/4 LIMIT (NOx)			68.1 %	
AS % OF CAEP/6 LIMIT (NOx)			77.4 %	
AS % OF CAEP/8 LIMIT (NOx)			91.0 %	

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

FUEL

SPEC

H/C AROM (%) Jet A 1.94

15.3

MEASURED DATA

	POWER	TIME	FUEL FLOW	EMISSIONS INDICES (g/kg)			
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	2.359	0.08	0.52	28.72	7.3
CLIMB OUT	85	2.2	1.907	0.09	0.52	21.32	4.7
APPROACH	30	4.0	0.614	0.2	2.21	8.88	2.3
IDLE	7	26.0	0.193	10.37	45.74	3.71	2.3
LTO TOTAL FUEL (kg) or EMISSIONS (g) 799				3176	14251	10635	_
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				3	3	3	3
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)			12.47	55.95	41.73	7.3	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$				1.19	2.85	1.9	1.1
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$				11.44-13.52	53.49-58.62	40.25-44.03	5.9-7.8

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.40-97.82			
TEMPERATURE (K)	287 - 296			
ABS HUMIDITY (kg/kg)	.00840140			

MANUFACTURER: GE Aircraft Engines
TEST ORGANIZATION: CF6 Evaluation Engineering
TEST LOCATION:

TEST LOCATION: Site IIIC, PTO, Peebles, Ohio SICE III., FROM 29 May 85 TEST DATES:

TO 03 Jun 85

REMARKS

1. Ref GE Report R88AEB277.

2. Engine S/N's 690105 and 690005/2.

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

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