

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B2 BYPASS RATIO: 5.1 PRESSURE RATIO $(\pi_{\circ\circ})$: 27.74 UNIQUE ID NUMBER: 1GE025 RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 231.1

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	19.2	73.7	41.9	6.8
AS % OF ORIGINAL LIMIT	97.9 %	62.4 %	43.9 %	36.1 %
AS % OF CAEP/2 LIMIT (NOx)			54.8 %	
AS % OF CAEP/4 LIMIT (NOx)			66.1 %	
AS % OF CAEP/6 LIMIT (NOx)			75.1 %	
AS % OF CAEP/8 LIMIT (NOx)			89.3 %	

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	2.131	0.08	0.57	23.89	5.8
CLIMB OUT	85	2.2	1.761	0.1	0.55	18.65	3.9
APPROACH	30	4.0	0.577	0.22	2.65	8.77	2.4
IDLE	7	26.0	0.192	11.17	48.02	3.7	3.1
LTO TOTAL FUEL (kg) or EMISSIONS (g) 760			760	3407	14929	8796	_
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)			14.75	64.67	38.08	5.8	
SIGMA (D_p/F_{oo} in g/kN , or SN)			1.25	2.94	1.84	0.95	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$				13.68-16.01	62.12-67.28	36.70-40.37	4.6-6.3

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: Site IIIC, PTO, Peebles, Ohio TEST LOCATION: Site i.i.,
FROM 29 May 85

TO 03 Jun 85

REMARKS

1. Ref GE Report R86AEB589.

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

FUEL

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

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

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