

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80A BYPASS RATIO: PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 1GE010 2.9 ENGINE TYPE: TF RATED OUTPUT (Foo) (kN): 208.8

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	12.1	43.6	61.6	15.6
AS % OF ORIGINAL LIMIT	61.7 %	36.9 %	62.9 %	80.6 %
AS % OF CAEP/2 LIMIT (NOx)			78.6 %	
AS % OF CAEP/4 LIMIT (NOx)			94.2 %	
AS % OF CAEP/6 LIMIT (NOx)			107.0 %	
AS % OF CAEP/8 LIMIT (NOx)			126.5 %	

DATA STATUS

PRE-REGIILATION x

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 (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	2.145	0.29	1	29.8	12
CLIMB OUT	85	2.2	1.795	0.29	1.1	25.6	10
APPROACH	30	4.0	0.615	0.47	3.1	10.3	2
IDLE	7	26.0	0.150	6.29	28.2	3.4	2
LTO TOTAL FUE	L (kg) or EMIS	SIONS (g)	709	1636	7407	11066	_
NUMBER OF ENG	INES			1	1	1	1
NUMBER OF TEST	rs			3	3	3	1
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)			7.84	35.5	53.1	12	
SIGMA (Dp/Foo	in g/kN, or SN)		0.95	0.4	3	_
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$		7.17-8.93	35.0-35.9	49.6-55.4	_		

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99.08-99.78
TEMPERATURE (K)	275 - 277
ABS HUMIDITY (kg/kg)	0.002

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SPEC	Jet A	
H/C	1.93	
AROM (%)	17.1	

MANUFACTURER:

GE Aircraft Engines
TEST ORGANIZATION:

Production Engine Test
TEST LOCATION: Production Test Cells M35

TO 12 Nov 83

REMARKS

1. Ref GE Report no R83AEB635.

2. Engine S/N 580214.

3. Smoke from Engine S/N 580005, report R81AEG513.

4. With approval of US FAA, idle power data were only acquired at the engine design setting of 3.69%.

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

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