

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-50C BYPASS RATIO: 4.3 PRESSURE RATIO $(\pi_{\circ\circ})$: 27.76 UNIQUE ID NUMBER: 3GE070 RATED OUTPUT $(F_{\circ \circ})$ (kN): ENGINE TYPE: TF 224.2

REGULATORY DATA

CHARACTERISTIC VALUE:		СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	5.3	37.7	57.5	16.1
AS % OF ORIGINAL LIMIT	27.0 %	31.9 %	60.2 %	84.9 %
AS % OF CAEP/2 LIMIT (NOx)			75.2 %	
AS % OF CAEP/4 LIMIT (NOx)			90.7 %	
AS % OF CAEP/6 LIMIT (NOx)			103.0 %	
AS % OF CAEP/8 LIMIT (NOx)			122.4 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES

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	2.281	0.14	0.44	28.03	11.41
CLIMB OUT	85	2.2	1.875	0.14	0.46	24.3	11.83
APPROACH	30	4.0	0.641	0.29	3.99	10.09	1.61
IDLE	7	26.0	0.163	2.72	24.04	3.4	1.4
LTO TOTAL FUEL (kg) or EMISSIONS (g) 751			784	6883	11116	_	
NUMBER OF ENGINES			1	1	1	1	
NUMBER OF TESTS			3	3	3	3	
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)			3.47	30.73	49.59	12.52	
SIGMA $(D_p/F_{oo} \text{ in } g/kN$, or SN)			0.09	0.48	2.93	1.79	
RANGE (D _p /F _{oo} in g/kN, or SN)			3.38-3.56	30.32-31.25	47.66-52.96	10.68-14.00	

ACCESSORY LOADS

(kW) POWER EXTRACTION 0 ΑT POWER SETTINGS % CORE FLOW POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.73-97.91		
TEMPERATURE (K)	292.3-301.3		
ABS HUMIDITY (kg/kg)	.01270216		

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SPEC	Jet A
H/C	1.935
AROM (%)	16.3

MANUFACTURER:

GE Development/Production Test Operation TEST ORGANIZATION:

TEST LOCATION: Site IVD, Peebles, Ohio

FROM 28 Jul 87 TEST DATES: TO 29 Jul 87

REMARKS

1. Engine equipped with low emissions fuel nozzle config.

2. GE Report R87AEB559.

3. Engine 530375/001.

4. Idle emissions calculated at normal idle setting rather than 7%.

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

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