

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-50C2 BYPASS RATIO: 4.3 PRESSURE RATIO $(\pi_{\circ\circ})$: 28.44 3GE074 UNIQUE ID NUMBER: RATED OUTPUT $(F_{\circ \circ})$ (kN): ENGINE TYPE: TF 230.4

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	5.3	36.6	59.8	16.1
AS % OF ORIGINAL LIMIT	27.0 %	31.0 %	61.7 %	85.5 %
AS % OF CAEP/2 LIMIT (NOx)			77.2 %	
AS % OF CAEP/4 LIMIT (NOx)			92.7 %	
AS % OF CAEP/6 LIMIT (NOx)			105.3 %	
AS % OF CAEP/8 LIMIT (NOx)			124.8 %	

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	2.361	0.14	0.45	28.97	10.95
CLIMB OUT	85	2.2	1.940	0.15	0.45	25.5	11.72
APPROACH	30	4.0	0.663	0.28	3.71	10.16	1.62
IDLE	7	26.0	0.163	2.72	24.04	3.4	1.4
LTO TOTAL FUEL (kg) or EMISSIONS (g) 769			788	6863	11884	_	
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)			3.42	29.8	51.58	12.52	
SIGMA (D_p/F_{oo} in g/kN , or SN)			0.15	0.44	2.8	1.79	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			3.28-3.58	29.42-30.28	49.71-54.80	10.68-14.00	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

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

FUEL

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

MANUFACTURER:

GE Development/Production Test Operation TEST ORGANIZATION: TEST LOCATION: Site IVE, FROM 28 Jul 87

Site IVD, Peebles, Ohio

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)