

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-50E2B BYPASS RATIO: 4.3 UNIQUE ID NUMBER: 3GE079 PRESSURE RATIO (π_{oo}) : 29.06 ENGINE TYPE: TF RATED OUTPUT (F_{oo}) (kN): 236.7

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	5.1	35.4	61.3	16.1
AS % OF ORIGINAL LIMIT	26.0 %	30.0 %	62.5 %	86.1 %
AS % OF CAEP/2 LIMIT (NOx)			78.1 %	
AS % OF CAEP/4 LIMIT (NOx)			93.6 %	
AS % OF CAEP/6 LIMIT (NOx)			106.4 %	
AS % OF CAEP/8 LIMIT (NOx)			125.6 %	

DATA STATUS

- PRE-REGULATION

CERTIFICATION

- REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES

- DEDICATED ENGINES TO PRODUCTION STANDARD

- OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

x 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	2.410	0.13	0.46	29.59	11.17
CLIMB OUT	85	2.2	1.997	0.15	0.44	26.34	11.62
APPROACH	30	4.0	0.667	0.26	3.42	10.49	1.58
IDLE	7	26.0	0.163	2.72	24.04	3.4	1.4
LTO TOTAL FUEL (kg) or EMISSIONS (g) 779			786	6823	12482	_	
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)			3.33	28.88	52.87	12.52	
SIGMA (D_p/F_{oo} in g/kN , or SN)			0.15	0.407	2.73	1.79	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			3.19-3.48	28.50-29.31	51.06-56.10	10.68-14.00	

ACCESSORY LOADS

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

TEST ORGANIZATION: GE Development/Production Test Operation

TEST LOCATION: Site IVD, Peebles, Ohio

TEST DATES: FROM 28 Jul 87 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)