

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-50E2 BYPASS RATIO: 4.3 PRESSURE RATIO $(\pi_{\circ\circ})$: 29.8 1GE009 UNIQUE ID NUMBER: RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 230.4

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	37.3	99.0	64.3	4.8
AS % OF ORIGINAL LIMIT	190.1 %	83.9 %	64.6 %	25.5 %
AS % OF CAEP/2 LIMIT (NOx)			80.7 %	
AS % OF CAEP/4 LIMIT (NOx)			96.5 %	
AS % OF CAEP/6 LIMIT (NOx)			109.7 %	
AS % OF CAEP/8 LIMIT (NOx)			129.0 %	

DATA STATUS

PRE-REGULATION x

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	2.487	0.6	0.5	36.3	4.1
CLIMB OUT	85	2.2	1.975	0.7	0.5	29.7	2.7
APPROACH	30	4.0	0.660	1	4.3	9.5	2.7
IDLE	7	26.0	0.215	21.8	61.8	3.6	4.5
LTO TOTAL FUEL (kg) or EMISSIONS (g) 859			7715	21591	14247	_	
NUMBER OF ENGINES				6	6	6	6
NUMBER OF TESTS			6	6	6	6	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			33.5	93.7	61.8	4.5	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			3.8	4.6	0.5	1.5	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	_	_	_	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.3-100.4
TEMPERATURE (K)	270 - 296
ABS HUMIDITY (kg/kg)	.00270103

MANUFACTURER: GE Aircraft Engines
TEST ORGANIZATION: Production Engine Test
TEST LOCATION:

TEST LOCATION: Production:
FROM 12 Oct 79 Production Test Cells M34 & M35 TO 05 Dec 79

1. Ref Report no FAA-EE-80-27 (GE Report R80AEG420)

FUEL

SPEC	Jet A
H/C	1.92
AROM (%)	17.1

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

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