

# ICAO ENGINE EXHAUST EMISSIONS DATA BANK

# **SUBSONIC ENGINES**

ENGINE IDENTIFICATION: CF6-6D BYPASS RATIO: 5.9 PRESSURE RATIO  $(\pi_{oo})$ : 24.7 UNIQUE ID NUMBER: 1GE001 RATED OUTPUT  $(F_{\circ\circ})$  (kN): 174.8 ENGINE TYPE: TF

### REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
$D_p/F_{oo}$ (g/kN) or SN	36.7	93.3	68.9	4.3
AS % OF ORIGINAL LIMIT	187.4 %	79.1 %	77.1 %	20.9 %
AS % OF CAEP/2 LIMIT (NOx)			96.4 %	
AS % OF CAEP/4 LIMIT (NOx)			117.8 %	
AS % OF CAEP/6 LIMIT (NOx)			133.8 %	
AS % OF CAEP/8 LIMIT (NOx)			161.5 %	

### 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	EMISSIONS INDICES (g/kg)		(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F <sub>00</sub> )						
TAKE-OFF	100	0.7	1.736	0.3	0.5	40	4
CLIMB OUT	85	2.2	1.431	0.3	0.5	32.6	3
APPROACH	30	4.0	0.484	0.7	6.5	11.4	3
IDLE	7	26.0	0.173	21	54.2	4.5	4
LTO TOTAL FUEL (kg) or EMISSIONS (g) 648		5821	15496	11611	-		
NUMBER OF ENGINES			7	7	7	7	
NUMBER OF TESTS			7	7	7	7	
AVERAGE D <sub>p</sub> /F <sub>oo</sub> (g/kN) or AVERAGE SN (MAX)		33.3	88.7	66.4	4		
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			3.5	6.9	2.3	2.2	
RANGE (D <sub>p</sub> /F <sub>oo</sub> in g/kN, or SN)			-	_	-	-	

# ACCESSORY LOADS

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

# ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99.15-100.46		
TEMPERATURE (K)	280 - 301		
ABS HUMIDITY (kg/kg)	.003015		

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SPEC	Jet A		
H/C	1.93		
AROM (%)	18.7		

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

TEST LOCATION: Produced FROM 16 Aug 79 Production Test Cells M34 & M35

TO 19 Nov 79

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

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

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