



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B8FA
UNIQUE ID NUMBER: 3GE058
ENGINE TYPE: TF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{oo}): 31.71
RATED OUTPUT (F_{oo}) (kN): 267.02

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	2.4	26.4	51.1	8.4
AS % OF ORIGINAL LIMIT	12.2 %	22.4 %	49.4 %	46.4 %
AS % OF CAEP/2 LIMIT (NOx)			61.8 %	
AS % OF CAEP/4 LIMIT (NOx)			72.6 %	
AS % OF CAEP/6 LIMIT (NOx)			81.9 %	
AS % OF CAEP/8 LIMIT (NOx)			95.4 %	

DATA STATUS

- PRE-REGULATION
x 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

MODE	POWER SETTING (% F_{oo})	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NOx	
TAKE-OFF	100	0.7	2.605	0.05	0.05	26.9	7.2
CLIMB OUT	85	2.2	2.117	0.05	0.04	20.85	5.2
APPROACH	30	4.0	0.688	0.11	1.97	12.63	0
IDLE	7	26.0	0.205	1.41	18.27	4.83	0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			874	489	6185	12400	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				4	4	4	4
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				1.83	23.19	46.43	7.2
SIGMA (D_p/F_{oo} in g/kN, or SN)				-	-	-	-
RANGE (D_p/F_{oo} in g/kN, or SN)				-	-	-	-

ACCESSORY LOADS

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

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.61-98.15
TEMPERATURE (K)	279-293
ABS HUMIDITY (kg/kg)	.0046-.0074

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: GE
TEST ORGANIZATION: CF6 Ecval Engineering
TEST LOCATION: Site IIIB, PTO, Peebles, Ohio, USA
TEST DATES: FROM 13 Jan 95 TO 17 Jan 95

REMARKS

- GE Report TM95-17.
- Engine S/N 704/223 & 704/234
- 1862M39 combustor

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

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