



## ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

## SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B1F  
UNIQUE ID NUMBER: 1GE023  
COMBUSTOR:  
ENGINE TYPE: TF

BYPASS RATIO: 5.1  
PRESSURE RATIO ( $\pi_{oo}$ ): 30.1  
RATED THRUST ( $F_{oo}$ ) (kN): 254.3

## REGULATORY DATA

\*\* DATA SUPERSEDED \*\*

SEE FOLLOWING UID FOR REVISED DATA:

1GE024

CHARACTERISTIC VALUE:	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
D <sub>p</sub> /F <sub>oo</sub> (g/kN) or SN	16.2	65.0	46.4	8.3
AS % OF ORIGINAL LIMIT	82.5	55.1	46.3	45.4
AS % OF CAEP/2 LIMIT (NO <sub>x</sub> )			57.8	
AS % OF CAEP/4 LIMIT (NO <sub>x</sub> )			68.9	
AS % OF CAEP/6 LIMIT (NO <sub>x</sub> )			78.3	
AS % OF CAEP/8 LIMIT (NO <sub>x</sub> )			92.1	

## 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 (DATE: - )

## MEASURED DATA

MODE	POWER SETTING (%F <sub>oo</sub> )	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
TAKE-OFF	100	0.7	2.353	0.08	0.52	28.06	7.1
CLIMB OUT	85	2.2	1.913	0.09	0.52	21.34	4.8
APPROACH	30	4.0	0.632	0.20	2.19	8.97	2.3
IDLE	7	26.0	0.205	9.68	43.71	3.74	3.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			823	3157	14493	10718	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				3	3	3	3
AVERAGE D <sub>p</sub> /F <sub>oo</sub> (g/kN) or AVERAGE SN (MAX)				12.4	57.1	42.2	7.1
SIGMA (D <sub>p</sub> /F <sub>oo</sub> in g/kN, or SN)				1.3	3.1	2.0	1.1
RANGE (D <sub>p</sub> /F <sub>oo</sub> in g/kN, or SN)				11.31-13.7	54.41-59.98	40.58-44.6	5.7-7.5

## ACCESSORY LOADS

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

AT - POWER SETTINGS  
AT - POWER SETTINGS

## ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.4-97.8
TEMPERATURE (K)	287-296
ABS HUMIDITY (kg/kg)	0.0084-0.014

## FUEL

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

MANUFACTURER: General Electric Company  
TEST ORGANIZATION: CF6 Eval Engineering  
TEST LOCATION: Site IIIC, PTO, Peebles, Ohio  
TEST DATES: 29/05/1985-03/06/1985

## REMARKS

1. Ref GE Report R84AEB152.
2. Engine S/N's 690105 and 690005/2.

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation,  
'- ' if information is not available)