



# ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

## SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B1F  
UNIQUE ID NUMBER: 07P27GE218  
COMBUSTOR: LEC  
ENGINE TYPE: TF

BYPASS RATIO: 5.1  
PRESSURE RATIO ( $\pi_{oo}$ ): 31.0  
RATED THRUST ( $F_{oo}$ ) (kN): 254.3

### REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
D <sub>p</sub> /F <sub>oo</sub> (g/kN) or SN	3.8	31.7	46.2	3.8
AS % OF ORIGINAL LIMIT	19.3	26.9	45.3	20.7
AS % OF CAEP/2 LIMIT (NO <sub>x</sub> )			56.6	
AS % OF CAEP/4 LIMIT (NO <sub>x</sub> )			66.9	
AS % OF CAEP/6 LIMIT (NO <sub>x</sub> )			75.7	
AS % OF CAEP/8 LIMIT (NO <sub>x</sub> )			88.6	

For non-volatile particulate matter (nvPM) emissions, please refer to the ICAO Engine nvPM Emissions Data Sheet.

### 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)  
- OUT OF PRODUCTION (DATE: - )  
- OUT OF SERVICE (DATE: - )

### MEASURED DATA

MODE	POWER SETTING (%F <sub>oo</sub> )	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO <sub>x</sub>	
TAKE-OFF	100	0.7	2.397	0.05	0.15	24.31	2.9
CLIMB OUT	85	2.2	1.953	0.05	0.13	18.58	2.4
APPROACH	30	4.0	0.639	0.10	2.21	11.24	0.5
IDLE	7	26.0	0.190	2.00	20.86	3.97	0.5
LTO TOTAL FUEL (kg) or EMISSIONS (g)			809	625	6574	10139	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D <sub>p</sub> /F <sub>oo</sub> (g/kN) or AVERAGE SN (MAX)				2.5	25.9	39.9	3.0
SIGMA (D <sub>p</sub> /F <sub>oo</sub> in g/kN, or SN)				0.1	0.2	0.1	0.4
RANGE (D <sub>p</sub> /F <sub>oo</sub> in g/kN, or SN)				2.36-2.51	25.74-26.08	39.82-39.94	2.69-3.38

### ACCESSORY LOADS

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

AT - POWER SETTINGS  
AT - POWER SETTINGS

### ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.6-98.7
TEMPERATURE (K)	285.3-290.6
ABS HUMIDITY (kg/kg)	0.0023-0.0036

### FUEL

SPEC	Jet A
H/C	1.89
AROM (%)	16.2

MANUFACTURER: General Electric Company  
TEST ORGANIZATION: GE Aerospace  
TEST LOCATION: PTO, Ohio, USA  
TEST DATES: 15/03/2023-30/03/2023

### NO<sub>x</sub> REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
	2.3.2 d) (CAEP/6)
x	2.3.2 e) (CAEP/8)

### REMARKS

- Engine S/N 707-628/1
- Ref. R2022AE132/Rev. 1

Compliance with Fuel Venting requirements:

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