



# ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

## SUBSONIC ENGINES

ENGINE IDENTIFICATION: GENx-1B75/P2  
UNIQUE ID NUMBER: 07P27GE236  
COMBUSTOR: TAPS  
ENGINE TYPE: TF

BYPASS RATIO: 8.7  
PRESSURE RATIO ( $\pi_{oo}$ ): 46.6  
RATED THRUST ( $F_{oo}$ ) (kN): 345.2

### REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
D <sub>p</sub> /F <sub>oo</sub> (g/kN) or SN	0.8	17.0	50.6	1.2
AS % OF ORIGINAL LIMIT	4.2	14.4	38.0	7.3
AS % OF CAEP/2 LIMIT (NO <sub>x</sub> )			47.5	
AS % OF CAEP/4 LIMIT (NO <sub>x</sub> )			50.5	
AS % OF CAEP/6 LIMIT (NO <sub>x</sub> )			54.9	
AS % OF CAEP/8 LIMIT (NO <sub>x</sub> )			60.7	

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	2.765	0.02	0.07	41.24	0.3
CLIMB OUT	85	2.2	2.250	0.02	0.13	22.66	0.3
APPROACH	30	4.0	0.697	0.04	1.42	11.16	0.6
IDLE	7	26.0	0.226	0.48	12.76	4.74	0.5
LTO TOTAL FUEL (kg) or EMISSIONS (g)			933	182	4787	15060	-
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)				0.5	13.9	43.6	1.0
SIGMA (D <sub>p</sub> /F <sub>oo</sub> in g/kN, or SN)				0.0	0.2	0.6	0.3
RANGE (D <sub>p</sub> /F <sub>oo</sub> in g/kN, or SN)				0.48-0.55	13.63-14.11	43.21-44.31	0.74-1.34

### ACCESSORY LOADS

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

AT All POWER SETTINGS  
AT All POWER SETTINGS

### ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.9
TEMPERATURE (K)	293.4
ABS HUMIDITY (kg/kg)	0.007

### FUEL

SPEC	Jet A
H/C	1.89
AROM (%)	16.33

MANUFACTURER: General Electric Company  
TEST ORGANIZATION: GE Aerospace  
TEST LOCATION: PTO, Ohio, USA  
TEST DATES: 24/05/2023-31/05/2023

### 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 958-859/1
- Ref. GE Report R2022AE169/Rev.0

Compliance with Fuel Venting requirements:

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