



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GENx-1B70/75/P2, 1B70/72/P2, 1B70C/P2 BYPASS RATIO: 8.9
UNIQUE ID NUMBER: 07P27GE234 PRESSURE RATIO (π_{oo}): 43.5
COMBUSTOR: TAPS
ENGINE TYPE: TF RATED THRUST (F_{oo}) (kN): 321.6

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	1.0	19.4	41.0	1.2
AS % OF ORIGINAL LIMIT	5.2	16.5	32.3	7.2
AS % OF CAEP/2 LIMIT (NO _x)			40.4	
AS % OF CAEP/4 LIMIT (NO _x)			43.6	
AS % OF CAEP/6 LIMIT (NO _x)			47.7	
AS % OF CAEP/8 LIMIT (NO _x)			53.2	

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 _{oo})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.518	0.02	0.09	31.12	0.3
CLIMB OUT	85	2.2	2.066	0.01	0.19	17.97	0.3
APPROACH	30	4.0	0.650	0.04	1.68	10.46	0.5
IDLE	7	26.0	0.217	0.59	14.05	4.59	0.5
LTO TOTAL FUEL (kg) or EMISSIONS (g)			873	214	5087	11381	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)				0.7	15.8	35.4	1.0
SIGMA (D _p /F _{oo} in g/kN, or SN)				0.1	0.3	0.6	0.3
RANGE (D _p /F _{oo} in g/kN, or SN)				0.61-0.7	15.54-16.05	34.98-36.04	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_x 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)