



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GENx-1B74/75/P2
UNIQUE ID NUMBER: 07P27GE235
COMBUSTOR: TAPS
ENGINE TYPE: TF

BYPASS RATIO: 8.7
PRESSURE RATIO (π_{oo}): 46.1
RATED THRUST (F_{oo}) (kN): 341.2

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	0.8	17.4	48.8	1.2
AS % OF ORIGINAL LIMIT	4.3	14.7	36.9	7.3
AS % OF CAEP/2 LIMIT (NO _x)			46.1	
AS % OF CAEP/4 LIMIT (NO _x)			49.2	
AS % OF CAEP/6 LIMIT (NO _x)			53.5	
AS % OF CAEP/8 LIMIT (NO _x)			59.3	

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	2.722	0.02	0.07	39.27	0.3
CLIMB OUT	85	2.2	2.218	0.02	0.14	21.80	0.3
APPROACH	30	4.0	0.689	0.04	1.46	11.04	0.5
IDLE	7	26.0	0.225	0.49	12.96	4.72	0.5
LTO TOTAL FUEL (kg) or EMISSIONS (g)			923	187	4834	14350	-
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)				0.5	14.2	42.1	1.0
SIGMA (D _p /F _{oo} in g/kN, or SN)				0.0	0.2	0.6	0.3
RANGE (D _p /F _{oo} in g/kN, or SN)				0.5-0.57	13.92-14.41	41.64-42.73	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)