



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GENx-1B58
UNIQUE ID NUMBER: 11GE135
COMBUSTOR: TAPS
ENGINE TYPE: TF

BYPASS RATIO: 9.2
PRESSURE RATIO (π_{00}): 37.2
RATED THRUST (F_{00}) (kN): 271.3

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	1.9	35.7	26.8	2.9
AS % OF ORIGINAL LIMIT	9.9	30.3	23.4	16.1
AS % OF CAEP/2 LIMIT (NO _x)			29.3	
AS % OF CAEP/4 LIMIT (NO _x)			32.9	
AS % OF CAEP/6 LIMIT (NO _x)			36.5	
AS % OF CAEP/8 LIMIT (NO _x)			41.5	

DATA STATUS

- PRE-REGULATION
x CERTIFICATION
- REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
x 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 ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	2.019	0.02	0.25	18.04	0.0
CLIMB OUT	85	2.2	1.667	0.02	0.87	11.02	0.0
APPROACH	30	4.0	0.554	0.07	3.69	8.41	5.5
IDLE	7	26.0	0.190	1.11	24.31	4.08	0.1
LTO TOTAL FUEL (kg) or EMISSIONS (g)			734	342	7897	6279	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				1.3	29.1	23.1	2.3
SIGMA (D _p /F ₀₀ in g/kN, or SN)				0.1	0.7	0.0	1.1
RANGE (D _p /F ₀₀ in g/kN, or SN)				1.18-1.35	28.5-29.8	23.13-23.17	1.1-3.3

ACCESSORY LOADS

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

AT All POWER SETTINGS
AT All POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.4-98.6
TEMPERATURE (K)	280.5-299
ABS HUMIDITY (kg/kg)	0.00345-0.00716

FUEL

SPEC	Jet A
H/C	1.89
AROM (%)	15.3

MANUFACTURER: General Electric Company
TEST ORGANIZATION: General Electric Company
TEST LOCATION: PTO, Ohio
TEST DATES: 29/09/2009-03/10/2009

NO_x REGULATION PARAGRAPH

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

REMARKS

1. Ref. GE REPORT R2008AE357
2. Engine S/N 956-108/2
3. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
4. NO_x levels in accordance with Part III, Chapter 2, 2.3.2 e) (CAEP/8)

Compliance with Fuel Venting requirements:

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