



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GENx-2B67
UNIQUE ID NUMBER: 11GE139
COMBUSTOR: TAPS
ENGINE TYPE: TF
BYPASS RATIO: 8.0
PRESSURE RATIO (π_{00}): 42.4
RATED THRUST (F_{00}) (kN): 299.8

REGULATORY DATA

| CHARACTERISTIC VALUE: | HC | CO | NO _x | SMOKE NUMBER |
|--|-----|------|-----------------|--------------|
| D _p /F ₀₀ (g/kN) or SN | 1.1 | 28.2 | 42.4 | 7.1 |
| AS % OF ORIGINAL LIMIT | 5.5 | 23.9 | 34.0 | 40.8 |
| AS % OF CAEP/2 LIMIT (NO _x) | | | 42.5 | |
| AS % OF CAEP/4 LIMIT (NO _x) | | | 46.2 | |
| AS % OF CAEP/6 LIMIT (NO _x) | | | 50.7 | |
| AS % OF CAEP/8 LIMIT (NO _x) | | | 56.7 | |

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 | 2.451 | 0.02 | 0.17 | 31.20 | 0.0 |
| CLIMB OUT | 85 | 2.2 | 2.012 | 0.02 | 0.28 | 17.94 | 0.0 |
| APPROACH | 30 | 4.0 | 0.701 | 0.06 | 2.53 | 9.58 | 5.5 |
| IDLE | 7 | 26.0 | 0.216 | 0.57 | 18.95 | 4.43 | 0.1 |
| LTO TOTAL FUEL (kg) or EMISSIONS (g) | | | 874 | 208 | 6890 | 10978 | - |
| 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) | | | | 0.7 | 23.0 | 36.6 | 5.5 |
| SIGMA (D _p /F ₀₀ in g/kN, or SN) | | | | 0.0 | 5.4 | 0.2 | 1.2 |
| RANGE (D _p /F ₀₀ in g/kN, or SN) | | | | 0.67-0.74 | 22.57-23.44 | 36.35-36.79 | 4.61-6.86 |

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 R2008AE262
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)