



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF34-8C5
UNIQUE ID NUMBER: 6GE092
COMBUSTOR: LEC
ENGINE TYPE: TF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{oo}): 23.1
RATED THRUST (F_{oo}) (kN): 59.4

REGULATORY DATA

**** DATA SUPERSEDED ****

SEE FOLLOWING UID FOR REVISED DATA:

8GE110

| CHARACTERISTIC VALUE: | HC | CO | NO _x | SMOKE NUMBER |
|--|-----|------|-----------------|--------------|
| D _p /F _{oo} (g/kN) or SN | 0.5 | 42.8 | 43.0 | 10.7 |
| AS % OF ORIGINAL LIMIT | 2.6 | 36.3 | 49.9 | 39.2 |
| AS % OF CAEP/2 LIMIT (NO _x) | | | 62.4 | |
| AS % OF CAEP/4 LIMIT (NO _x) | | | 69.2 | |
| AS % OF CAEP/6 LIMIT (NO _x) | | | 73.4 | |
| AS % OF CAEP/8 LIMIT (NO _x) | | | 82.2 | |

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)

x OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE (DATE: -)

MEASURED DATA

| MODE | POWER SETTING (%F _{oo}) | TIME (minutes) | FUEL FLOW (kg/s) | HC | CO | NO _x | SMOKE NUMBER |
|--|-----------------------------------|----------------|------------------|------|-------|-----------------|--------------|
| TAKE-OFF | 100 | 0.7 | 0.648 | 0.02 | 0.64 | 14.69 | 8.3 |
| CLIMB OUT | 85 | 2.2 | 0.530 | 0.02 | 0.57 | 12.60 | 2.5 |
| APPROACH | 30 | 4.0 | 0.179 | 0.06 | 4.24 | 10.75 | 0.0 |
| IDLE | 7 | 26.0 | 0.064 | 0.13 | 18.25 | 4.60 | 0.0 |
| LTO TOTAL FUEL (kg) or EMISSIONS (g) | | | 240 | 18 | 2070 | 2205 | - |
| 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) | | | | 0.3 | 34.9 | 37.1 | 8.3 |
| SIGMA (D _p /F _{oo} in g/kN, or SN) | | | | | | | |
| RANGE (D _p /F _{oo} in g/kN, or SN) | | | | | | | |

ACCESSORY LOADS

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

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

| | |
|----------------------|----------------|
| BAROMETER (kPa) | 97.1-98.1 |
| TEMPERATURE (K) | 284-292 |
| ABS HUMIDITY (kg/kg) | 0.0047-0.00727 |

FUEL

| | |
|----------|-------|
| SPEC | Jet A |
| H/C | 1.94 |
| AROM (%) | 18 |

MANUFACTURER: General Electric Company
TEST ORGANIZATION: Peebles Test Operation
TEST LOCATION: Peebles, Ohio
TEST DATES: 27/01/2002-28/01/2002

REMARKS

1. GE Report R2001AE078
2. Engine S/N 193111
3. LEC combustor
4. Minor change to climb SN (2.52 to 2.12) in Issue 15

Compliance with Fuel Venting requirements:

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