



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-50C2R
UNIQUE ID NUMBER: 1GE008
COMBUSTOR:
ENGINE TYPE: TF

BYPASS RATIO: 4.3
PRESSURE RATIO (π_{00}): 28.8
RATED THRUST (F_{00}) (kN): 224.2

REGULATORY DATA

| CHARACTERISTIC VALUE: | HC | CO | NO _x | SMOKE NUMBER |
|--|-------|-------|-----------------|--------------|
| D _p /F ₀₀ (g/kN) or SN | 39.2 | 100.5 | 62.7 | 4.8 |
| AS % OF ORIGINAL LIMIT | 199.8 | 85.1 | 64.2 | 25.3 |
| AS % OF CAEP/2 LIMIT (NO _x) | | | 80.3 | |
| AS % OF CAEP/4 LIMIT (NO _x) | | | 96.3 | |
| AS % OF CAEP/6 LIMIT (NO _x) | | | 109.4 | |
| AS % OF CAEP/8 LIMIT (NO _x) | | | 129.5 | |

DATA STATUS

x PRE-REGULATION
- CERTIFICATION
x 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 ₀₀) | TIME (minutes) | FUEL FLOW (kg/s) | HC | CO | NO _x | SMOKE NUMBER |
|--|-----------------------------------|----------------|------------------|-------|-------|-----------------|--------------|
| TAKE-OFF | 100 | 0.7 | 2.379 | 0.60 | 0.50 | 35.00 | 3.9 |
| CLIMB OUT | 85 | 2.2 | 1.915 | 0.70 | 0.50 | 29.00 | 2.6 |
| APPROACH | 30 | 4.0 | 0.643 | 1.00 | 5.20 | 9.40 | 2.8 |
| IDLE | 7 | 26.0 | 0.212 | 23.00 | 62.30 | 3.50 | 4.5 |
| LTO TOTAL FUEL (kg) or EMISSIONS (g) | | | 838 | 7998 | 21583 | 13436 | - |
| NUMBER OF ENGINES | | | | 6 | 6 | 6 | 6 |
| NUMBER OF TESTS | | | | 6 | 6 | 6 | 6 |
| AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX) | | | | 35.2 | 95.1 | 60.2 | 4.5 |
| SIGMA (D _p /F ₀₀ in g/kN, or SN) | | | | 3.8 | 4.6 | 0.5 | 1.5 |
| RANGE (D _p /F ₀₀ 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) | 98.3-100.4 |
| TEMPERATURE (K) | 270-296 |
| ABS HUMIDITY (kg/kg) | 0.0027-0.0103 |

FUEL

| | |
|----------|-------|
| SPEC | Jet A |
| H/C | 1.92 |
| AROM (%) | 17.1 |

MANUFACTURER: General Electric Company
TEST ORGANIZATION: Production Engine Test
TEST LOCATION: Production Test Cells M34 & M35
TEST DATES: 12/10/1979-05/12/1979

REMARKS

1. Ref Report no FAA-EE-80-27 (GE Report R80AEG420)

Compliance with Fuel Venting requirements:

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