



## ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

## SUBSONIC ENGINES

ENGINE IDENTIFICATION: GENx-1B64/P2  
UNIQUE ID NUMBER: 17GE172  
COMBUSTOR: TAPS  
ENGINE TYPE: TF

BYPASS RATIO: 9.0  
PRESSURE RATIO ( $\pi_{00}$ ): 40.9  
RATED THRUST ( $F_{00}$ ) (kN): 298.0

## REGULATORY DATA

\*\* DATA SUPERSEDED \*\*

SEE FOLLOWING UID FOR REVISED DATA:

01P17GE206

CHARACTERISTIC VALUE:	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
$D_p/F_{00}$ (g/kN) or SN	1.0	22.9	37.9	0.8
AS % OF ORIGINAL LIMIT	5.1	19.4	31.1	4.3
AS % OF CAEP/2 LIMIT (NO <sub>x</sub> )			38.9	
AS % OF CAEP/4 LIMIT (NO <sub>x</sub> )			42.7	
AS % OF CAEP/6 LIMIT (NO <sub>x</sub> )			46.9	
AS % OF CAEP/8 LIMIT (NO <sub>x</sub> )			52.7	

## 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)

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

## MEASURED DATA

MODE	POWER SETTING (% $F_{00}$ )	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
TAKE-OFF	100	0.7	2.273	0.02	0.09	27.12	0.2
CLIMB OUT	85	2.2	1.863	0.02	0.34	16.85	0.1
APPROACH	30	4.0	0.609	0.05	2.11	10.39	0.1
IDLE	7	26.0	0.204	0.56	16.13	4.69	0.1
LTO TOTAL FUEL (kg) or EMISSIONS (g)			806	191	5544	9747	-
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)				0.6	18.6	32.7	0.6
SIGMA ( $D_p/F_{00}$ in g/kN, or SN)				0.1	0.0	0.2	0.3
RANGE ( $D_p/F_{00}$ in g/kN, or SN)				0.58-0.69	18.58-18.64	32.5-32.9	0.35-0.97

## ACCESSORY LOADS

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

AT All POWER SETTINGS  
AT All POWER SETTINGS

## ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.1-98.5
TEMPERATURE (K)	295.1-298.8
ABS HUMIDITY (kg/kg)	0.01189-0.01439

## FUEL

SPEC	Jet A
H/C	1.89
AROM (%)	15.4

MANUFACTURER: General Electric Company  
TEST ORGANIZATION: General Electric Company  
TEST LOCATION: PTO, Ohio  
TEST DATES: 19/06/2012-21/06/2012

NO<sub>x</sub> 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 R2010AE907
2. Engine S/N 956-101/4
3. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
4. NO<sub>x</sub> 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)