



## ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

## SUBSONIC ENGINES

ENGINE IDENTIFICATION: GENx-1B74/75/P2  
UNIQUE ID NUMBER: 13GE160  
COMBUSTOR: TAPS  
ENGINE TYPE: TF

BYPASS RATIO: 8.7  
PRESSURE RATIO ( $\pi_{00}$ ): 46.4  
RATED THRUST ( $F_{00}$ ) (kN): 341.2

## REGULATORY DATA

\*\* DATA SUPERSEDED \*\*

SEE FOLLOWING UID FOR REVISED DATA:

17GE177

CHARACTERISTIC VALUE:	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
D <sub>p</sub> /F <sub>00</sub> (g/kN) or SN	0.7	18.2	53.4	0.8
AS % OF ORIGINAL LIMIT	3.4	15.4	40.2	4.4
AS % OF CAEP/2 LIMIT (NO <sub>x</sub> )			50.2	
AS % OF CAEP/4 LIMIT (NO <sub>x</sub> )			53.5	
AS % OF CAEP/6 LIMIT (NO <sub>x</sub> )			58.2	
AS % OF CAEP/8 LIMIT (NO <sub>x</sub> )			64.4	

## 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 <sub>00</sub> )	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
TAKE-OFF	100	0.7	2.704	0.02	0.05	42.71	0.0
CLIMB OUT	85	2.2	2.196	0.02	0.11	24.90	0.0
APPROACH	30	4.0	0.693	0.04	1.61	11.56	0.7
IDLE	7	26.0	0.221	0.38	13.80	4.99	0.1
LTO TOTAL FUEL (kg) or EMISSIONS (g)			914	145	5054	15707	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D <sub>p</sub> /F <sub>00</sub> (g/kN) or AVERAGE SN (MAX)				0.4	14.8	46.0	0.6
SIGMA (D <sub>p</sub> /F <sub>00</sub> in g/kN, or SN)				0.0	0.0	0.3	0.3
RANGE (D <sub>p</sub> /F <sub>00</sub> in g/kN, or SN)				0.4-0.45	14.78-14.82	45.74-46.34	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)