



## ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

## SUBSONIC ENGINES

ENGINE IDENTIFICATION: GE90-76B  
UNIQUE ID NUMBER: 5GE086  
COMBUSTOR:  
ENGINE TYPE: TF

BYPASS RATIO: 8.5  
PRESSURE RATIO ( $\pi_{00}$ ): 34.9  
RATED THRUST ( $F_{00}$ ) (kN): 360.6

## REGULATORY DATA

\*\* DATA SUPERSEDED \*\*

SEE FOLLOWING UID FOR REVISED DATA:

6GE087

CHARACTERISTIC VALUE:	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
D <sub>p</sub> /F <sub>00</sub> (g/kN) or SN	1.1	23.4	62.4	3.7
AS % OF ORIGINAL LIMIT	5.4	19.8	56.8	22.2
AS % OF CAEP/2 LIMIT (NO <sub>x</sub> )			71.0	
AS % OF CAEP/4 LIMIT (NO <sub>x</sub> )			81.2	
AS % OF CAEP/6 LIMIT (NO <sub>x</sub> )			90.7	
AS % OF CAEP/8 LIMIT (NO <sub>x</sub> )			104.2	

## DATA STATUS

- PRE-REGULATION  
- 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 <sub>00</sub> )	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
TAKE-OFF	100	0.7	2.781	0.04	0.12	40.41	2.8
CLIMB OUT	85	2.2	2.280	0.03	0.15	31.77	1.8
APPROACH	30	4.0	0.763	0.06	1.58	15.09	2.9
IDLE	7	26.0	0.267	0.52	15.66	5.64	2.5
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1017	241	6871	19393	-
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)				0.7	19.1	53.8	2.9
SIGMA (D <sub>p</sub> /F <sub>00</sub> in g/kN, or SN)				0.1	0.5	0.2	0.4
RANGE (D <sub>p</sub> /F <sub>00</sub> in g/kN, or SN)				0.61-0.71	18.53-19.39	53.61-53.98	2.59-3.23

## ACCESSORY LOADS

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

AT - POWER SETTINGS  
AT - POWER SETTINGS

## ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.3-98.2
TEMPERATURE (K)	279.1-281.6
ABS HUMIDITY (kg/kg)	0.0022-0.0064

## FUEL

SPEC	Jet A
H/C	1.92
AROM (%)	17.4

MANUFACTURER: General Electric Company  
TEST ORGANIZATION: GE90 Eval Engineering  
TEST LOCATION: Site IIID, PTO, Peebles, Ohio  
TEST DATES: 09/01/2000-12/01/2000

## REMARKS

1. GE Report R97AEB298
2. Engine S/N 900326

Compliance with Fuel Venting requirements:

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