



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION:Passport20-19BB1A

UNIQUE ID NUMBER:07P27GE241

COMBUSTOR:SAC

ENGINE TYPE:MTF

BYPASS RATIO:5.9

PRESSURE RATIO ($\pi_{o/o}$):41.3

RATED THRUST ($F_{o/o}$) (kN):84.2

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{o/o} (g/kN) or SN	0.2	18.1	65.8	0.7
AS % OF ORIGINAL LIMIT	0.8	15.3	53.7	2.7
AS % OF CAEP/2 LIMIT (NO _x)			67.1	
AS % OF CAEP/4 LIMIT (NO _x)			72.9	
AS % OF CAEP/6 LIMIT (NO _x)			79.4	
AS % OF CAEP/8 LIMIT (NO _x)			88.4	

For non-volatile particulate matter (nvPM) emissions, please refer to the ICAO Engine nvPM Emissions Data Sheet.

DATA STATUS

-PRE-REGULATION

x-CERTIFICATION

-REVISED (SEE REMARKS)

TEST ENGINE STATUS

xNEWLY MANUFACTURED ENGINES

-DEDICATED ENGINES TO PRODUCTION STANDARD

-OTHER (SEE REMARKS)

EMISSIONS STATUS

xDATA 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 _{o/o})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	0.797	0.02	0.28	36.03	0.6
CLIMB OUT	85	2.2	0.657	0.02	0.27	27.12	0.5
APPROACH	30	4.0	0.221	0.03	1.18	15.31	0.1
IDLE	7	26.0	0.078	0.06	10.71	7.00	0.1
LTO TOTAL FUEL (kg) or EMISSIONS (g)			296	11	1406	5228	-
NUMBER OF ENGINES				3	3	3	3
NUMBER OF TESTS				9	9	9	9
AVERAGE D _p /F _{o/o} (g/kN) or AVERAGE SN (MAX)				0.1	16.7	62.1	0.6
SIGMA (D _p /F _{o/o} in g/kN, or SN)				0.0	1.7	1.4	0.3
RANGE (D _p /F _{o/o} in g/kN, or SN)				0.12-0.16	15.24-19.24	59.96-64.06	0.35-1.08

ACCESSORY LOADS

POWER EXTRACTION0(kW)ATAllPOWER SETTINGS

STAGE BLEED0(% CORE FLOW)ATAllPOWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.5-99.5
TEMPERATURE (K)	277.7-287.1
ABS HUMIDITY (kg/kg)	0.0028-0.0043

MANUFACTURER:General Electric Company

TEST ORGANIZATION:GE Aerospace

TEST LOCATION:PTO,Ohio,USA

TEST DATES:08/12/2024-14/12/2024

REMARKS

1. Engine S/N 904-385/01; Ref. GE Report R2022AE139/Rev.2
2. Engine S/N 904-439/01; Ref. GE Report R2023AE174/Rev.0
3. Engine S/N 904-292/03; Ref. GE Report R2024AE174/Rev.0
4. Atmospheric Conditions, Fuel and Test Dates are specified for Engine S/N 904-292/03

FUEL

SPEC	Jet A
H/C	1.86
AROM (%)	17.6

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
	2.3.2 d) (CAEP/6)
x	2.3.2 e) (CAEP/8)

Compliance with Fuel Venting requirements:

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