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ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GEnx-1B75/P2 BYPASS RATIO: 8.6 UNIQUE ID NUMBER: 17GE178 PRESSURE RATIO $(\pi_{\circ\circ})$: 47.0 ENGINE TYPE: TF RATED OUTPUT $(F_{\circ\circ})$ (kN): 345.2

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.6	17.8	55.2	0.8
AS % OF ORIGINAL LIMIT	3.3 %	15.1 %	41.2 %	4.5 %
AS % OF CAEP/2 LIMIT (NOx)			51.5 %	
AS % OF CAEP/4 LIMIT (NOx)			54.7 %	
AS % OF CAEP/6 LIMIT (NOx)			59.4 %	
AS % OF CAEP/8 LIMIT (NOx)			65.6 %	

DATA STATUS

TEST ENGINE STATUS

- PRE-REGULATION x NEWLY MANUFACTURED ENGINES

x CERTIFICATION x DEDICATED ENGINES TO PRODUCTION STANDARD

REVISED (SEE REMARKS) - OTHER (SEE REMARKS)

EMISSIONS STATUS

CURRENT ENGINE STATUS

<u>FUEL</u>

X DATA CORRECTED TO REFERENCE (IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

(ANNEX 16 VOLUME II) - OUT OF PRODUCTION - OUT OF SERVICE

MEASURED DATA

	POWER	TIME	FUEL FLOW	EMISSIONS INDICES (g/kg)		(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	2.746	0.03	0.05	44.61	0.2
CLIMB OUT	85	2.2	2.229	0.02	0.1	25.83	0.16
APPROACH	30	4.0	0.701	0.04	1.57	11.67	0.4
IDLE	7	26.0	0.222	0.37	13.62	5.01	0.07
LTO TOTAL FUEL (kg) or EMISSIONS (g) 924			143	5014	16439	-	
NUMBER OF ENGINES			1	1	1	1	
NUMBER OF TESTS			3	3	3	3	
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)			0.41	14.53	47.62	0.58	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			0.02	0.021	0.313	0.34	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			0.39-0.44	14.50-14.54	47.31-4794	0.35-0.97	

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT ALL POWER SETTINGS STAGE BLEED 0 % CORE FLOW AT ALL POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.1 to 98.5
TEMPERATURE (K)	295.1 to 298.8
ABS HUMIDITY (kg/kg)	.01189 to .01439

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

MANUFACTURER: GE Aviation
TEST ORGANIZATION: GE Aviation
TEST LOCATION: PTO, Ohio, USA

TEST DATES: FROM 19 Jun 12 TO 21 Jun 12

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. NOx levels in accordance with Part III, Chapter 2, 2.3.2 e) (CAEP/8)

If REVISED, this data supersedes databank UID Compliance with fuel venting requirements:

x ('x' if complies, PR if pre-regulation)