O · OACI · MAYO

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GEnx-2B67/P BYPASS RATIO: 8.0 UNIQUE ID NUMBER: 17GE181 PRESSURE RATIO (π_{oo}) : 43.6 ENGINE TYPE: TF RATED OUTPUT (F_{oo}) (kN): 299.8

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.8	21.3	48.4	0.8
AS % OF ORIGINAL LIMIT	4.0 %	18.0 %	38.1 %	4.0 %
AS % OF CAEP/2 LIMIT (NOx)			47.6 %	
AS % OF CAEP/4 LIMIT (NOx)			51.4 %	
AS % OF CAEP/6 LIMIT (NOx)			56.2 %	
AS % OF CAEP/8 LIMIT (NOx)			62.6 %	

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		FUEL FLOW	EMISSIONS INDICES (g/kg)				
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	2.453	0.02	0.07	34.21	0.47
CLIMB OUT	85	2.2	2.009	0.02	0.17	21.1	0.47
APPROACH	30	4.0	0.642	0.04	1.78	11.11	0.54
IDLE	7	26.0	0.219	0.41	14.28	4.92	0.54
LTO TOTAL FUEL (kg) or EMISSIONS (g) 864			154	5201	12509	-	
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)			0.51	17.35	41.72	0.58	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			0.03	0.021	0.262	0.34	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			0.48-0.55	17.32-17.36	41.46-41.98	0.35-0.97	

ACCESSORY LOADS

POWER EXTRACTION0(kW)ATALLPOWER SETTINGSSTAGE BLEED0% CORE FLOWATALLPOWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.1 - 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 R2011AE578

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)