SO OACIO MAG

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: GEnx-1864/P2 BYPASS RATIO: 9.0 UNIQUE ID NUMBER: 17GE172 PRESSURE RATIO (π_{oo}) : 40.9 ENGINE TYPE: TF RATED OUTPUT (F_{oo}) (kN): 298.0

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	1.0	22.9	37.9	0.8
AS % OF ORIGINAL LIMIT	5.1 %	19.4 %	31.1 %	4.3 %
AS % OF CAEP/2 LIMIT (NOx)			38.9 %	
AS % OF CAEP/4 LIMIT (NOx)			42.7 %	
AS % OF CAEP/6 LIMIT (NOx)			46.9 %	
AS % OF CAEP/8 LIMIT (NOx)			52.7 %	

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	EMI	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	2.273	0.02	0.09	27.12	0.16
CLIMB OUT	85	2.2	1.863	0.02	0.34	16.85	0.13
APPROACH	30	4.0	0.609	0.05	2.11	10.39	0.14
IDLE	7	26.0	0.204	0.56	16.13	4.69	0.06
LTO TOTAL FUEL (kg) or EMISSIONS (g) 806			191	5544	9747	-	
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)			0.64	18.61	32.71	0.58	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			0.05	0.029	0.201	0.34	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			0.58-0.69	18.58-18.64	32.50-32.90	0.35-0.97	

ACCESSORY LOADS

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