

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: LEAP-1A26/26E1 BYPASS RATIO: 11.1 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 20CM089 33.3 ENGINE TYPE: TF RATED OUTPUT (Foo) (kN): 120.6

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.5	30.8	32.2	1.8
AS % OF ORIGINAL LIMIT	2.5 %	26.1 %	30.2 %	8.1 %
AS % OF CAEP/2 LIMIT (NOx)			37.8 %	
AS % OF CAEP/4 LIMIT (NOx)			43.8 %	
AS % OF CAEP/6 LIMIT (NOx)			49.2 %	
AS % OF CAEP/8 LIMIT (NOx)			56.9 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES ×

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE

(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

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	0.861	0.02	0.24	30.8	1.3
CLIMB OUT	85	2.2	0.710	0.02	0.26	13.38	1.17
APPROACH	30	4.0	0.244	0.04	2.65	8.75	1.31
IDLE	7	26.0	0.091	0.29	21.63	4.61	1.25
LTO TOTAL FUEL (kg) or EMISSIONS (g) 330				46	3259	3535	_
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				4	4	4	4
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			0.38	27.04	29.3	1.56	
SIGMA (D_p/F_{oo} in g/kN , or SN)				0.05	1.35	1.35	0.15
RANGE $(D_p/F_{oo} \text{ in g/kN, or SN})$ 0.3				0.33 to 0.4	25.41 to 28.38	27.63 to 30.63	1.47 to 1.82

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.8 to 98.8
TEMPERATURE (K)	274.6 to 279.8
ABS HUMIDITY (kg/kg)	.0020 to .0032

FUEL

SPEC	JET A
H/C	1.9
AROM (%)	16.5

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

FROM 21 Nov 16 TO 02 Dec 16 TEST DATES:

REMARKS

1. Ref. Report CRL-2201_2/Rev. 1

2. Engine S/N 600-104, 600-105

3. SN for each LTO mode is average of max SN for test points around that power setting

4. AVERAGE SN (MAX) is average of maximum SN measured from all points on each run

5. Certification in accordance with Part III, Chapter 2, of Amendment 8 of ICAO Annex 16 Vol. II.

6. 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)