

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CFM56-5B8/P BYPASS RATIO: 5.9 PRESSURE RATIO $(\pi_{\circ\circ})$: 22.6 UNIQUE ID NUMBER: 7CM048 RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 94.7

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	16.6	66.8	41.0	6.9
AS % OF ORIGINAL LIMIT	84.7 %	56.6 %	48.1 %	28.7 %
AS % OF CAEP/2 LIMIT (NOx)			60.2 %	
AS % OF CAEP/4 LIMIT (NOx)			74.4 %	
AS % OF CAEP/6 LIMIT (NOx)			84.5 %	
AS % OF CAEP/8 LIMIT (NOx)			103.3 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE

(ANNEX 16 VOLUME II)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

OUT OF PRODUCTION (DATE: -)

OUT OF SERVICE

FUEL

SPEC

H/C AROM (%)

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	0.875	0.1	0.8	19.7	5.4
CLIMB OUT	85	2.2	0.729	0.1	0.8	16.7	1.5
APPROACH	30	4.0	0.262	0.9	3.9	8.4	0.3
IDLE	7	26.0	0.094	6.5	32.9	3.4	0.6
LTO TOTAL FUEL (kg) or EMISSIONS (g) 342				1023	5176	3358	-
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)				10.8	54.4	35.4	5.4
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$				1	-	1	_
RANGE (D _p /F _{oo} in g/kN, or SN)				-	-	-	-

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) POWER SETTINGS % CORE FLOW POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.2 - 99.6
TEMPERATURE (K)	281.5 - 283.6
ABS HUMIDITY (kg/kg)	0.0065 - 0.0075

MANUFACTURER: CFM International

TEST ORGANIZATION: CFM56 Evaluation Engineering TEST LOCATION: Techopus.

FROM Nov 95 Techspace Aero, Liege, Belgium TO

1. FAA Certificiaction Report CR 0797/P, June 1995 and Certification Report CR-700 S3, October 2001

2. Engine S/N 779-194/1

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

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

Jet A 1.92

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