

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CFM56-5B6/2 BYPASS RATIO: 5.7 UNIQUE ID NUMBER: 2CM019 PRESSURE RATIO (π_{oo}) : 24.8 ENGINE TYPE: TF RATED OUTPUT (F_{oo}) (kN): 104.5

REGULATORY DATA

CHARACTERISTIC VALUE:	НC	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	6.7	110.6	31.7	4.0
AS % OF ORIGINAL LIMIT	34.0 %	93.7 %	35.4 %	17.1 %
AS % OF CAEP/2 LIMIT (NOx)			44.2 %	
AS % OF CAEP/4 LIMIT (NOx)			54.0 %	
AS % OF CAEP/6 LIMIT (NOx)			61.4 %	
AS % OF CAEP/8 LIMIT (NOx)			74.1 %	

DATA STATUS

- PRE-REGULATION

x CERTIFICATION

- REVISED (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE

(ANNEX 16 VOLUME II)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES

- DEDICATED ENGINES TO PRODUCTION STANDARD

- OTHER (SEE REMARKS)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

x OUT OF PRODUCTION (DATE: -)

- OUT OF SERVICE

FUEL

SPEC

H/C AROM (%)

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	0.998	0.1	4.48	13.51	0.5
CLIMB OUT	85	2.2	0.827	0.2	12.18	10.41	0.5
APPROACH	30	4.0	0.315	0.2	17.75	10.32	3.8
IDLE	7	26.0	0.111	3.4	46.1	3.9	3.5
LTO TOTAL FUEL (kg) or EMISSIONS (g) 400				630	10842	3158	-
NUMBER OF ENGINES				4	4	4	4
NUMBER OF TESTS				9	9	9	9
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)				5.84	103.35	30.2	3.7
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$				_	-	1	_
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$				4.58-8.45	97.66-109.78	29.37-31.42	3.1-4.2

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99.29-101.01		
TEMPERATURE (K)	288-298		
ABS HUMIDITY (kg/kg)	.01000146		

MANUFACTURER: CFMI

TEST ORGANIZATION: SNECMA, Villaroche, France
TEST LOCATION: Techspace Aero, Liege, Belgium

TEST DATES: FROM 19 Jun 95 TO 28 Jul 95

REMARKS

1. Ref GE Report CR-797/2 Supplement 1.

2. Engine S/N 779172/001, 779174/001, 779175/001, & 779178/001

3. DAC combustor

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

Jet A 1.92

18.1