

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

** DATA SUPERSEDED ** SEE SHEET: 8CM051

ENGINE IDENTIFICATION: CFM56-7B26 BYPASS RATIO: 5.1 PRESSURE RATIO $(\pi_{\circ\circ})$: 27.61 3CM033 UNIQUE ID NUMBER: RATED OUTPUT $(F_{\circ\circ})$ (kN): 116.99 ENGINE TYPE: TF

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	4.7	37.2	62.2	18.9
AS % OF ORIGINAL LIMIT	24.0 %	31.5 %	65.3 %	83.4 %
AS % OF CAEP/2 LIMIT (NOx)			81.7 %	
AS % OF CAEP/4 LIMIT (NOx)			96.6 %	
AS % OF CAEP/6 LIMIT (NOx)			111.9 %	
AS % OF CAEP/8 LIMIT (NOx)			133.0 %	

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 (DATE: -)

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	1.221	0.1	0.2	28.8	14.7
CLIMB OUT	85	2.2	0.999	0.1	0.6	22.5	11.9
APPROACH	30	4.0	0.338	0.1	1.6	10.8	0
IDLE	7	26.0	0.113	1.9	18.8	4.7	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 441			361	3533	6149	-	
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)			3.06	30.33	52.64	14.7	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1	-	_	_	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	-	-	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.8-98.0		
TEMPERATURE (K)	294-297		
ABS HUMIDITY (kg/kg)	.01000157		

FUEL

SPEC	Jet A
H/C	1.86-1.97
AROM (%)	16.9-17.7

MANUFACTURER:

TEST ORGANIZATION: TEST ORGANIZATION: Peeples :
FROM Jul 96

GE CFM56-7B Eval Engineering Peebles Test Operation, Peebles, Ohio, USA

TO

REMARKS

1. FAA Certification Report CR-997, Dec 96.

2. Engine S/N 874-101/01

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

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