



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CFM56-7B26 BYPASS RATIO: 5.1
 UNIQUE ID NUMBER: 8CM051 PRESSURE RATIO (π_{oo}): 27.61
 ENGINE TYPE: TF RATED OUTPUT (F_{oo}) (kN): 116.99

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	4.7	37.2	61.0	18.9
AS % OF ORIGINAL LIMIT	24.0 %	31.5 %	64.0 %	83.4 %
AS % OF CAEP/2 LIMIT (NOx)			80.1 %	
AS % OF CAEP/4 LIMIT (NOx)			96.6 %	
AS % OF CAEP/6 LIMIT (NOx)			109.7 %	
AS % OF CAEP/8 LIMIT (NOx)			130.5 %	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE

MEASURED DATA

MODE	POWER SETTING (% F_{oo})	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NOx	
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} in g/kN, or SN)				-	-	-	-
RANGE (D_p/F_{oo} in g/kN, or SN)				-	-	-	-

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.8-98.0
TEMPERATURE (K)	294-297
ABS HUMIDITY (kg/kg)	.0100-.0157

FUEL

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

MANUFACTURER: GE
 TEST ORGANIZATION: CFM56-7B Eval Engineering
 TEST LOCATION: Peebles Test Operation, Peebles, Ohio, USA
 TEST DATES: FROM Jul 96 TO -

REMARKS

1. FAA Certification Report CR-997, Dec 96.
2. Engine S/N 874-101/01
3. Characteristic D_p/F_{oo} NOx incorrectly entered originally [3CM033]
4. Issue 15; D_p/F_{oo} NOx corrected from 63.2 to 61.0 and % of standards to 64.0, 80.1 & 96.6

If REVISED, this data supersedes databank UID
 Compliance with fuel venting requirements: 0 ('x' if complies, PR if pre-regulation)