ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	CFM56-7B24	BYPASS RATIO:	5.2
UNIQUE ID NUMBER:	3CM032	PRESSURE RATIO (π_{oo}):	25.8
COMBUSTOR:			
ENGINE TYPE:	TF	RATED THRUST (F_{oo}) (kN):	107.7

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO_X	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	6.0	45.6	55.4	16.2
AS % OF ORIGINAL LIMIT	30.6	38.6	60.5	69.8
AS % OF CAEP/2 LIMIT (NO_X)			75.6	
AS % OF CAEP/4 LIMIT (NO_X)			92.0	
AS % OF CAEP/6 LIMIT (NO_X)			104.5	
AS % OF CAEP/8 LIMIT (NO_X)			125.4	

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   (DATE: -   )

MEASURED DATA

MODE	POWER SETTING (%F_{oo})	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO_X	
TAKE-OFF	100	0.7	1.103	0.10	0.40	25.30	12.6
CLIMB OUT	85	2.2	0.910	0.10	0.60	20.50	11.4
APPROACH	30	4.0	0.316	0.10	2.20	10.10	0.0
IDLE	7	26.0	0.109	2.40	22.00	4.40	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			412	432	3998	5149	-
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)				3.9	37.1	47.8	12.6
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
TEMPERATURE (K)	294-297
ABS HUMIDITY (kg/kg)	0.01-0.0157

FUEL

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

MANUFACTURER:	CFM International
TEST ORGANIZATION:	CFM56-7B Eval Engineering
TEST LOCATION:	Peebles Test Operation (PTO), Peebles, Ohio
TEST DATES:	01/07/1996

REMARKS

     1. FAA Certification Report CR-997, Dec 96.
     2. Engine S/N 874-101/01

Compliance with Fuel Venting requirements: -   *('x' if complies, 'PR' if pre-regulation, '-' if information is not available)*