ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	TFE731-2-2B	BYPASS RATIO:	2.6
UNIQUE ID NUMBER:	1AS001	PRESSURE RATIO (π_{oo}):	13.9
COMBUSTOR:			
ENGINE TYPE:	TF	RATED THRUST (F_{oo}) (kN):	15.6

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO_X	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	62.3	183.2	42.9	
AS % OF ORIGINAL LIMIT	317.6	155.3	63.3	
AS % OF CAEP/2 LIMIT (NO_X)			79.1	
AS % OF CAEP/4 LIMIT (NO_X)			75.9	
AS % OF CAEP/6 LIMIT (NO_X)			76.2	
AS % OF CAEP/8 LIMIT (NO_X)			78.2	

DATA STATUS

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

TEST ENGINE STATUS

x	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)

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	0.205	0.11	1.39	15.25	
CLIMB OUT	85	2.2	0.173	0.13	2.03	13.08	
APPROACH	30	4.0	0.067	4.26	22.38	5.90	
IDLE	7	26.0	0.024	20.04	58.60	2.82	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			85	823	2612	630	-
NUMBER OF ENGINES				3	3	3	
NUMBER OF TESTS				3	3	3	
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)				53.4	169.4	40.5	
SIGMA (D_p/F_{oo} in g/kN, or SN)							
RANGE (D_p/F_{oo} in g/kN, or SN)				50-58	161-177	39-43	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	96.7-98.1
TEMPERATURE (K)	285-288
ABS HUMIDITY (kg/kg)	0.0066-0.0087

FUEL

SPEC	ASTM D1655-73T
H/C	
AROM (%)	17

MANUFACTURER:	Allied Signal
TEST ORGANIZATION:	Allied Signal
TEST LOCATION:	Phoenix
TEST DATES:	01/12/1975-01/04/1976

REMARKS

1. Not required to meet GASEOUS regulations

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