



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: V2530-A5
UNIQUE ID NUMBER: 1IA005
COMBUSTOR:
ENGINE TYPE: MTF

BYPASS RATIO: 4.5
PRESSURE RATIO (π_{00}): 32.1
RATED THRUST (F_{00}) (kN): 133.4

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	0.4	24.2	67.2	11.6
AS % OF ORIGINAL LIMIT	2.0	20.5	64.5	53.0
AS % OF CAEP/2 LIMIT (NO _x)			80.7	
AS % OF CAEP/4 LIMIT (NO _x)			94.4	
AS % OF CAEP/6 LIMIT (NO _x)			106.4	
AS % OF CAEP/8 LIMIT (NO _x)			123.7	

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 ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	1.331	0.05	0.45	33.80	4.9
CLIMB OUT	85	2.2	1.077	0.04	0.52	27.10	6.4
APPROACH	30	4.0	0.377	0.06	1.81	10.10	4.6
IDLE	7	26.0	0.138	0.10	10.95	5.00	2.4
LTO TOTAL FUEL (kg) or EMISSIONS (g)			504	35	2620	7732	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				0.3	19.7	58.0	9.0
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW)
STAGE BLEED 4.5 (% CORE FLOW)

AT - POWER SETTINGS
AT 0.07 POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	101-101.8
TEMPERATURE (K)	288-296
ABS HUMIDITY (kg/kg)	0.0086-0.0114

FUEL

SPEC	Jet A
H/C	1.9
AROM (%)	

MANUFACTURER: International Aero Engines
TEST ORGANIZATION: Pratt & Whitney
TEST LOCATION: East Hartford, CT
TEST DATES: 12/08/1992-13/08/1992

REMARKS

1. Engine Type description originally wrongly given as TF; amended in Issue 15 to MTF

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)