



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: AE3007C1
UNIQUE ID NUMBER: 6AL023
COMBUSTOR: Type 1
ENGINE TYPE: MTF

BYPASS RATIO: 5.1
PRESSURE RATIO (π_{00}): 16.6
RATED THRUST (F_{00}) (kN): 31.5

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	14.3	66.8	41.1	1.2
AS % OF ORIGINAL LIMIT	72.7	56.6	56.2	3.6
AS % OF CAEP/2 LIMIT (NO _x)			70.2	
AS % OF CAEP/4 LIMIT (NO _x)			71.4	
AS % OF CAEP/6 LIMIT (NO _x)			71.9	
AS % OF CAEP/8 LIMIT (NO _x)			76.4	

DATA STATUS

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

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
x 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	0.322	0.24	0.87	17.90	1.0
CLIMB OUT	85	2.2	0.269	0.28	1.07	15.35	0.0
APPROACH	30	4.0	0.099	0.66	3.96	7.05	0.0
IDLE	7	26.0	0.042	4.84	26.04	3.37	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			138	344	1842	1175	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				11.0	58.6	37.4	1.0
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 0 (% CORE FLOW)

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	
TEMPERATURE (K)	
ABS HUMIDITY (kg/kg)	

FUEL

SPEC	Jet A
H/C	1.9
AROM (%)	16-20

MANUFACTURER: Rolls-Royce Corporation
TEST ORGANIZATION: Rolls-Royce Corporation
TEST LOCATION: Indianapolis, Indiana
TEST DATES: 03/03/1994-19/04/1995

REMARKS

- For effectivity see Rolls-Royce Notice to Operators No. AE3007A-076
- Results based of Rolls-Royce report EDR 15171B

Compliance with Fuel Venting requirements:

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