



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: TAY 611-8C BYPASS RATIO: 3.2
UNIQUE ID NUMBER: 6RR042 PRESSURE RATIO (π_{00}): 15.8
COMBUSTOR: Transply IIJ
ENGINE TYPE: MTF RATED THRUST (F_{00}) (kN): 61.6

REGULATORY DATA ** DATA SUPERSEDED ** SEE FOLLOWING UID FOR REVISED DATA: 11RR048

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	4.6	101.6	48.2	5.1
AS % OF ORIGINAL LIMIT	23.2	86.1	67.4	18.7
AS % OF CAEP/2 LIMIT (NO _x)			84.3	
AS % OF CAEP/4 LIMIT (NO _x)			96.6	
AS % OF CAEP/6 LIMIT (NO _x)			102.7	
AS % OF CAEP/8 LIMIT (NO _x)			118.3	

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)
- 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	0.741	0.02	1.12	18.42	3.9
CLIMB OUT	85	2.2	0.612	0.00	1.27	15.01	2.2
APPROACH	30	4.0	0.241	0.00	4.99	5.60	0.2
IDLE	7	26.0	0.105	1.11	28.55	2.76	0.1
LTO TOTAL FUEL (kg) or EMISSIONS (g)			334	182	5103	2562	-
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)				3.0	82.8	41.6	3.9
SIGMA (D _p /F ₀₀ in g/kN, or SN)				0.0	0.0	0.0	0.0
RANGE (D _p /F ₀₀ in g/kN, or SN)				2.56-3.37	78.58-86.04	40.99-41.92	3.53-4.35

ACCESSORY LOADS

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

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99.9-100
TEMPERATURE (K)	281.4-282.7
ABS HUMIDITY (kg/kg)	0.00475

FUEL

SPEC	
H/C	1.99
AROM (%)	17.5

MANUFACTURER: Rolls-Royce plc
TEST ORGANIZATION: Rolls-Royce
TEST LOCATION: Dahlewitz
TEST DATES: 21/01/2002-22/01/2002

REMARKS

1. Certification report E-TR164/02
2. New airspray fuel injector

Compliance with Fuel Venting requirements:

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