

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: TAY611-8C BYPASS RATIO: 3.26 PRESSURE RATIO $(\pi_{\circ\circ})$: 15.88 UNIQUE ID NUMBER: 11RR048 RATED OUTPUT $(F_{\circ\circ})$ (kN): ENGINE TYPE: MTF 61.6

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	5.2	72.4	43.0	5.2
AS % OF ORIGINAL LIMIT	26.6 %	61.3 %	59.9 %	19.1 %
AS % OF CAEP/2 LIMIT (NOx)			74.9 %	
AS % OF CAEP/4 LIMIT (NOx)			85.7 %	
AS % OF CAEP/6 LIMIT (NOx)			91.2 %	
AS % OF CAEP/8 LIMIT (NOx)			105.1 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS) Х

TEST ENGINE STATUS

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)

OUT OF PRODUCTION OUT OF SERVICE

MEASURED DATA

	POWER	TIME	FUEL FLOW	EMI	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	0.731	0.03	0.5	19.3	4.39
CLIMB OUT	85	2.2	0.604	0.05	0.95	15.4	3.46
APPROACH	30	4.0	0.215	0.65	2.89	5.31	0.46
IDLE	7	26.0	0.102	1.49	24.4	2.53	0.21
LTO TOTAL FUEL (kg) or EMISSIONS (g) 321			275	4123	2500	_	
NUMBER OF ENGINES			3	3	3	3	
NUMBER OF TESTS			5	5	5	5	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			4.465	66.9	40.58	4.7	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1.308	11.5	0.9	0.59	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			2.57-5.62	59.55-82.67	39.5-41.7	3.67-5.2	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99.9 - 102
TEMPERATURE (K)	281.4 - 292.5
ABS HUMIDITY (kg/kg)	0.00475 - 0.00587

TO	TITLE
£	UEL

SPEC	-
H/C	1.946
AROM (%)	17.1

MANUFACTURER: Rolls-Royce TEST ORGANIZATION: Rolls-Royce TEST LOCATION:

FROM 22 Jan 02

TO 08 May 11

REMARKS

1. Certification Report O-TR0546/11

2. Certification in accordance with Part III, Chapter 2, of Amendment 6 of ICAO Annex 16 Vol. II.

3. NOx levels in accordance with Part III, Chapter 2, 2.3.2 d) (CAEP/6)

If REVISED, this data supersedes databank UID Compliance with fuel venting requirements:

- ('x' if complies, PR if pre-regulation)