

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: TAY Mk650-15 BYPASS RATIO: PRESSURE RATIO $(\pi_{\circ\circ})$: 16.4 UNIQUE ID NUMBER: 1RR021 RATED OUTPUT (Foo) (kN): ENGINE TYPE: MTF 67.2

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	13.9	117.2	47.1	20.6
AS % OF ORIGINAL LIMIT	71.0 %	99.4 %	64.6 %	78.2 %
AS % OF CAEP/2 LIMIT (NOx)			80.8 %	
AS % OF CAEP/4 LIMIT (NOx)			94.4 %	
AS % OF CAEP/6 LIMIT (NOx)			101.7 %	
AS % OF CAEP/8 LIMIT (NOx)			119.3 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

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 (DATE: -)

OUT OF SERVICE

MEASURED DATA

	POWER	TIME	FUEL FLOW	EMIS	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	0.874	0.37	1.74	19.81	17.6
CLIMB OUT	85	2.2	0.715	0.41	2.01	16.47	16
APPROACH	30	4.0	0.254	0.88	6.54	4.55	2.2
IDLE	7	26.0	0.119	3.29	33.77	1.7	0.3
LTO TOTAL FUEL (kg) or EMISSIONS (g) 378			717	6921	2875	-	
NUMBER OF ENGINES			2	2	2	2	
NUMBER OF TESTS			4	4	4	4	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			10.7	102.9	42.8	17.6	
SIGMA (D_p/F_{oo} in g/kN , or SN)			0.63	11.8	3.92	1.98	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			10.2-11.1	94.6-111.3	40.2-45.6	16.2-19.0	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99-101
TEMPERATURE (K)	280 - 289
ABS HUMIDITY (kg/kg)	.005008

FUEL

SPEC	AVTUR
H/C	1.91
AROM (%)	20

MANUFACTURER: Rolls Royce Ltd TEST ORGANIZATION: Rolls Royce Ltd

TEST LOCATION: Derby

FROM Mar 88 TEST DATES: TO Oct 89

1. Data from certification report CRR19057

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

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