

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: Trent 772 BYPASS RATIO: 5.03 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 3RR030 35.8 ENGINE TYPE: MTF RATED OUTPUT (Foo) (kN): 316.3

REGULATORY DATA

CHARACTERISTIC VALUE:		СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	3.2	31.9	65.3	2.6
AS % OF ORIGINAL LIMIT	16.3 %	27.0 %	58.5 %	15.1 %
AS % OF CAEP/2 LIMIT (NOx)			73.1 %	
AS % OF CAEP/4 LIMIT (NOx)			83.1 %	
AS % OF CAEP/6 LIMIT (NOx)			92.5 %	
AS % OF CAEP/8 LIMIT (NOx)			105.8 %	

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 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	3.200	0	0.2	34.38	1.9
CLIMB OUT	85	2.2	2.580	0	0.16	26.44	2
APPROACH	30	4.0	0.850	0.01	0.89	10.3	0.7
IDLE	7	26.0	0.280	1.46	17.94	4.71	0.2
LTO TOTAL FUEL (kg) or EMISSIONS (g) 1116			1116	640	8099	17784	_
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS			3	3	3	3	
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)			2.06	26	56.3	2	
SIGMA (D_p/F_{oo} in g/kN , or SN)			-	-	_	_	
RANGE (D _p /F _{oo} in g/kN, or SN)			1.74-2.37	24.2-27.4	55.0-57.4	1.6-2.5	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	100.2
TEMPERATURE (K)	287
ABS HUMIDITY (kg/kg)	.00530089

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SPEC	AVTUR
H/C	1.95
AROM (%)	16

MANUFACTURER: Rolls Royce plc TEST ORGANIZATION: Rolls Royce plc TEST LOCATION: SINFIN, Derby

FROM TEST DATES: Sep 94 TO

REMARKS

1. Data from certification report DNS 19234.

2. Improved traverse combustor.

3. Valid for Trent 772B and Trent 772C.

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

5. 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)