

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: Trent XWB-75 BYPASS RATIO: 9.3 PRESSURE RATIO $(\pi_{\circ\circ})$: 36.8 UNIQUE ID NUMBER: 14RR072 ENGINE TYPE: (TF) RATED OUTPUT (Foo) (kN): 334.0

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	2.1	36.4	48.7	11.6
AS % OF ORIGINAL LIMIT	10.9 %	30.9 %	42.9 %	68.4 %
AS % OF CAEP/2 LIMIT (NOx)			53.6 %	
AS % OF CAEP/4 LIMIT (NOx)			60.5 %	
AS % OF CAEP/6 LIMIT (NOx)			67.2 %	
AS % OF CAEP/8 LIMIT (NOx)			76.5 %	

DATA STATUS

PRE-REGIILATION

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	EMI	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	2.411	0	0.37	36.59	6.2
CLIMB OUT	85	2.2	1.980	0	0.45	28.5	7.5
APPROACH	30	4.0	0.715	0	1.54	10.51	5.6
IDLE	7	26.0	0.270	1.3	24.36	4.38	1.3
LTO TOTAL FUE	L (kg) or EMIS	SIONS (g)	955	549	10674	14800	_
NUMBER OF ENG	INES			2	2	2	2
NUMBER OF TESTS			4	4	4	4	
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)			1.64	31.96	44.31	9.93	
SIGMA $(D_p/F_{oo} \text{ in g/kN, or SN})$			0.08	2.38	0.97	3.004	
RANGE $(D_p/F_{oo} \text{ in g/kN, or SN})$			1.59 - 1.7	30.28 - 33.64	43.62 - 45	7.8 - 12.1	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.5 - 101.3
TEMPERATURE (K)	280 - 295
ABS HUMIDITY (kg/kg)	0.00248 - 0.00964

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SPEC	-
H/C	1.86
AROM (%)	17.3

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

FROM Apr 12 TEST DATES: TO Jul 14

1. Data from Certification Report DNS197360 Iss 2 $\,$

2. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.

3. NOx levels in accordance with Part III, Chapter 2, 2.3.2 e) (CAEP/8)

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

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