ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: Trent 884
UNIQUE ID NUMBER: 2RR026
ENGINE TYPE: TF

BYPASS RATIO: 5.87
PRESSURE RATIO (π_{oo}): 38.96
RATED OUTPUT (F_{oo}) (kN): 390.1

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	1.9	23.4	67.2	6.9
AS % OF ORIGINAL LIMIT	9.5 %	19.8 %	57.0 %	42.1 %
AS % OF CAEP/2 LIMIT (NOx)			71.3 %	
AS % OF CAEP/4 LIMIT (NOx)			79.2 %	
AS % OF CAEP/6 LIMIT (NOx)			87.4 %	
AS % OF CAEP/8 LIMIT (NOx)			98.8 %	

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)

- x OUT OF PRODUCTION (DATE: 01-Jul-05)
- \- OUT OF SERVICE

MEASURED DATA

MODE	POWER SETTING ($\%F_{oo}$)	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg) HC	CO	NOx	SMOKE NUMBER
TAKE-OFF	100	0.7	3.560	0	0.24	40.05	4.37
CLIMB OUT	85	2.2	2.890	0	0.18	30.63	5.1
APPROACH	30	4.0	0.970	0	0.65	11.07	2.53
IDLE	7	26.0	0.310	1	15.19	5.04	0.5
LTO TOTAL FUEL (kg) or EMISSIONS (g)			1247	484	7602	22687	-
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)				1.21	19.02	58	5.34
SIGMA (D_p/F_{oo} in g/kN, or SN)				-	-	-	-
RANGE (D_p/F_{oo} in g/kN, or SN)				1.03-1.40	17.64-19.78	56.5-59.2	4.7-6.0

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	100.2
TEMPERATURE (K)	287
ABS HUMIDITY (kg/kg)	.00527 - .00886

FUEL

SPEC	AVTUR
H/C	1.95
AROM (%)	16

MANUFACTURER: Rolls Royce plc
TEST ORGANIZATION: Rolls Royce plc
TEST LOCATION: SINFIN, Derby
TEST DATES: FROM Sep 94 TO -

REMARKS

1. Data from certification report DNS 14445

If REVISED, this data supersedes databank UID
Compliance with fuel venting requirements: 0 ('x' if complies, PR if pre-regulation)