

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: BR700-715C1-30 BYPASS RATIO: 4.55 PRESSURE RATIO $(\pi_{\circ\circ})$: 32.01 UNIQUE ID NUMBER: 4BR004 RATED OUTPUT $(F_{\circ \circ})$ (kN): ENGINE TYPE: MTF 95.33

REGULATORY DATA

CHARACTERISTIC VALUE:	НC	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.4	34.1	64.6	5.1
AS % OF ORIGINAL LIMIT	1.8 %	28.9 %	62.1 %	21.3 %
AS % OF CAEP/2 LIMIT (NOx)			77.6 %	
AS % OF CAEP/4 LIMIT (NOx)			90.9 %	
AS % OF CAEP/6 LIMIT (NOx)			102.5 %	
AS % OF CAEP/8 LIMIT (NOx)			119.3 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE (ANNEX 16 VOLUME II)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

OUT OF PRODUCTION (DATE: -)

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	0.980	0	0.75	31.39	3.98
CLIMB OUT	85	2.2	0.799	0	0.78	22.41	3.09
APPROACH	30	4.0	0.273	0	3.06	11.55	1.09
IDLE	7	26.0	0.101	0.14	14.86	5.72	0.87
LTO TOTAL FUEL (kg) or EMISSIONS (g) 370			370	22	2655	5314	_
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)			0.23	27.77	55.71	3.98	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	_	_	_	
RANGE (D _p /F _{oo} in g/kN, or SN)			0.17-0.29	27.22-28.85	55.26-56.04	3.61-4.26	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	101.3-101.9		
TEMPERATURE (K)	288.8-294.4		
ABS HUMIDITY (kg/kg)	0.00660079		

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SPEC	AVTUR
H/C	1.89
AROM (%)	17.7

MANUFACTURER:

TEST ORGANIZATION:

BMW Rolls-Royce GmbH,

TEST LOCATION:

FROM 07 May 98 BMW Rolls-Royce GmbH, Dahlewitz, Germany TO 08 May 98

Data from Certification Report E-TR484/98 (FR) ISS00

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

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