

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: AE3007A1/3 BYPASS RATIO: 4.81 PRESSURE RATIO $(\pi_{\circ\circ})$: 17.22 UNIQUE ID NUMBER: 6AT₁012 RATED OUTPUT $(F_{\circ \circ})$ (kN): ENGINE TYPE: MTF 33.05

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	17.3	86.0	51.4	0.0
AS % OF ORIGINAL LIMIT	88.4 %	72.9 %	69.0 %	0.0 %
AS % OF CAEP/2 LIMIT (NOx)			86.3 %	
AS % OF CAEP/4 LIMIT (NOx)			88.2 %	
AS % OF CAEP/6 LIMIT (NOx)			89.1 %	
AS % OF CAEP/8 LIMIT (NOx)			95.0 %	

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	EMI	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	0.359	0	0	21.26	0.01
CLIMB OUT	85	2.2	0.300	0	0	18.62	0.01
APPROACH	30	4.0	0.108	0.21	1.83	6.84	0.01
IDLE	7	26.0	0.045	5.23	32.4	3.29	0.01
LTO TOTAL FUEL (kg) or EMISSIONS (g) 151			372	2317	1465	-	
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)			11.25	70.08	44.34	0.01	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$				1	_	1	_
RANGE (D _p /F _{oo} in g/kN, or SN)			_	=	=	_	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99.6 - 99.7
TEMPERATURE (K)	297 - 301
ABS HUMIDITY (kg/kg)	0.0115 - 0.0141

FUEL

SPEC	Jet A	
H/C	1.9	
AROM (%)	16 - 20	

MANUFACTURER: Rolls-Royce Corporation Rolls-Royce Corporation TEST ORGANIZATION: TEST LOCATION: Indianapolis, Indiana, USA FROM 28 Aug 02

TEST DATES: TO 29 Aug 02

REMARKS

1. For effectivity see Rolls-Royce Notice to Operators No. AE3007A-076

2. Data in this form for AE3007A1/3 engine fitted with PAB fuel nozzles

3. Results based on Rolls-Royce report EDR 19972

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

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