

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: AE3007A1 BYPASS RATIO: 4.77 PRESSURE RATIO (π_{oo}) : 17.97 UNIQUE ID NUMBER: 6AT-005 ENGINE TYPE: MTF RATED OUTPUT (Foo) (kN): 34.91

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	11.4	60.8	45.9	1.2
AS % OF ORIGINAL LIMIT	58.3 %	51.5 %	60.4 %	3.7 %
AS % OF CAEP/2 LIMIT (NOx)			75.5 %	
AS % OF CAEP/4 LIMIT (NOx)			77.6 %	
AS % OF CAEP/6 LIMIT (NOx)			78.7 %	
AS % OF CAEP/8 LIMIT (NOx)			84.2 %	

DATA STATUS

PRE-REGIILATION

CERTIFICATION

REVISED (SEE REMARKS) Х

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	0.383	0.221	0.77	19.66	1
CLIMB OUT	85	2.2	0.318	0.257	0.96	16.63	0.01
APPROACH	30	4.0	0.113	0.655	3.91	7.1	0.01
IDLE	7	26.0	0.046	3.818	23.73	3.47	0.01
LTO TOTAL FUEL (kg) or EMISSIONS (g) 157			307	1865	1456	-	
NUMBER OF ENGINES			2	2	2	2	
NUMBER OF TESTS			3	3	3	3	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			8.78	53.38	41.71	1	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1	_	1	_	
RANGE $(D_p/F_{oo} \text{ in g/kN, or SN})$			-	-	-	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	0
TEMPERATURE (K)	0
ABS HUMIDITY (kg/kg)	0

FUEL

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

MANUFACTURER: Rolls-Royce Corporation TEST ORGANIZATION: Rolls-Royce Corporation TEST LOCATION: INGLANS:
FROM 03 Mar 94 Indianapolis, Indiana, USA

TO 19 Apr 95

REMARKS

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

2. Results are based on Rolls-Royce report EDR 15171B

3. AE3007A1 data in this report replace data reported in ICAO databank under ID No. 4AL002, Rev 9

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

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