ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: AE3007A1/1   BYPASS RATIO: 4.77
UNIQUE ID NUMBER: 6AL008   PRESSURE RATIO (π_{oo}):   17.9
ENGINE TYPE: MTF   RATED OUTPUT (F_{oo}) (kN):   34.74

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	11.7	61.5	45.7	1.2
AS % OF ORIGINAL LIMIT	59.8 %	52.1 %	60.3 %	3.7 %
AS % OF CAEP/2 LIMIT (NOx)			75.3 %	
AS % OF CAEP/4 LIMIT (NOx)			77.4 %	
AS % OF CAEP/6 LIMIT (NOx)			78.4 %	
AS % OF CAEP/8 LIMIT (NOx)			83.9 %	

DATA STATUS   TEST ENGINE STATUS

-     PRE-REGULATION   -   NEWLY MANUFACTURED ENGINES
- x   CERTIFICATION   x   DEDICATED ENGINES TO PRODUCTION STANDARD
-     REVISED (SEE REMARKS)   -   OTHER (SEE REMARKS)

EMISSIONS STATUS   CURRENT ENGINE STATUS

x   DATA CORRECTED TO REFERENCE   (IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
     (ANNEX 16 VOLUME II)   x   OUT OF PRODUCTION (DATE: -)
                                       -     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	0.381	0.222	0.77	19.57	1
CLIMB OUT	85	2.2	0.316	0.258	0.97	16.55	0.01
APPROACH	30	4.0	0.113	0.658	3.93	7.07	0.01
IDLE	7	26.0	0.046	3.92	23.95	3.46	0.01
LTO TOTAL FUEL (kg) or EMISSIONS (g)			156	313	1874	1442	–
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)				9.01	53.94	41.53	1
SIGMA (D_p/F_{oo} in g/kN, or SN)				–	–	–	–
RANGE (D_p/F_{oo} in g/kN, or SN)				–	–	–	–

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS   FUEL

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

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

MANUFACTURER: Rolls-Royce Corporation
TEST ORGANIZATION: Rolls-Royce Corporation
TEST LOCATION: Indianapolis, Indiana, USA
TEST DATES: FROM   03 Mar 94   TO 19 Apr 95

REMARKS

1. For effectivity see Rolls-Royce Notice to Operators No. AE3007A-076
2. Results based on Rolls-Royce report EDR 15171B

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