ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	TAY 651	BYPASS RATIO:	3.0
UNIQUE ID NUMBER:	3RR032	PRESSURE RATIO (π_{oo}):	16.4
COMBUSTOR:	Pedhead		
ENGINE TYPE:	MTF	RATED THRUST (F_{oo}) (kN):	68.5

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO$_X$	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	6.3	82.2	46.9	12.7
AS % OF ORIGINAL LIMIT	32.1	69.6	64.4	48.4
AS % OF CAEP/2 LIMIT (NO$_X$)			80.5	
AS % OF CAEP/4 LIMIT (NO$_X$)			94.6	
AS % OF CAEP/6 LIMIT (NO$_X$)			102.2	
AS % OF CAEP/8 LIMIT (NO$_X$)			120.3	

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: -   )
-    OUT OF SERVICE (DATE: -   )

MEASURED DATA

MODE	POWER SETTING (%F$_{oo}$)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			
				HC	CO	NO$_X$	SMOKE NUMBER
TAKE-OFF	100	0.7	0.870	0.09	0.75	17.56	5.6
CLIMB OUT	85	2.2	0.720	0.19	0.51	13.77	7.9
APPROACH	30	4.0	0.260	0.12	1.64	5.42	4.0
IDLE	7	26.0	0.120	1.32	23.26	2.52	0.6
LTO TOTAL FUEL (kg) or EMISSIONS (g)			381	276	4532	2760	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				1	4	4	4
AVERAGE D$_p$/F$_{oo}$ (g/kN) or AVERAGE SN (MAX)				4.1	66.9	40.5	9.9
SIGMA (D$_p$/F$_{oo}$ in g/kN, or SN)							
RANGE (D$_p$/F$_{oo}$ in g/kN, or SN)					64.2-69.8	39.7-41.1	9.3-10.4

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	
TEMPERATURE (K)	283
ABS HUMIDITY (kg/kg)	0.0068-0.0081

FUEL

SPEC	AVTUR
H/C	1.95
AROM (%)	16.1

MANUFACTURER:	Rolls-Royce plc
TEST ORGANIZATION:	Rolls-Royce plc
TEST LOCATION:	SINFIN-Derby
TEST DATES:	01/06/1997

REMARKS

1. Pedhead combustor

Compliance with Fuel Venting requirements: -   ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)