



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: TAY 650
UNIQUE ID NUMBER: 3RR031
COMBUSTOR: Pedhead
ENGINE TYPE: MTF

BYPASS RATIO: 3.0
PRESSURE RATIO (π_{00}): 15.9
RATED THRUST (F_{00}) (kN): 67.2

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	6.0	80.0	44.9	12.7
AS % OF ORIGINAL LIMIT	30.6	67.8	62.6	48.1
AS % OF CAEP/2 LIMIT (NO _x)			78.2	
AS % OF CAEP/4 LIMIT (NO _x)			91.6	
AS % OF CAEP/6 LIMIT (NO _x)			98.7	
AS % OF CAEP/8 LIMIT (NO _x)			115.8	

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 ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	0.860	0.11	0.69	16.45	5.6
CLIMB OUT	85	2.2	0.710	0.22	0.48	12.94	7.9
APPROACH	30	4.0	0.250	0.11	1.76	5.26	4.0
IDLE	7	26.0	0.120	1.23	22.36	2.50	0.6
LTO TOTAL FUEL (kg) or EMISSIONS (g)			377	261	4361	2591	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				1	4	4	4
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				3.9	65.2	38.8	9.9
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)					62.4-67.9	38.1-39.5	9.3-10.4

ACCESSORY LOADS

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

AT - POWER SETTINGS
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)