



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: AS907-1-1A
UNIQUE ID NUMBER: 8HN001
COMBUSTOR:
ENGINE TYPE: TF

BYPASS RATIO: 4.2
PRESSURE RATIO (π_{oo}): 22.0
RATED THRUST (F_{oo}) (kN): 30.6

REGULATORY DATA

**** DATA SUPERSEDED ****

SEE FOLLOWING UID FOR REVISED DATA:

11HN003

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	16.3	94.9	66.3	24.1
AS % OF ORIGINAL LIMIT	83.3	80.4	79.0	73.5
AS % OF CAEP/2 LIMIT (NO _x)			98.7	
AS % OF CAEP/4 LIMIT (NO _x)			99.9	
AS % OF CAEP/6 LIMIT (NO _x)			100.6	
AS % OF CAEP/8 LIMIT (NO _x)			106.5	

DATA STATUS

- PRE-REGULATION
x CERTIFICATION
- REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
- 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: 2011)
- OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F _{oo})	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	0.347	0.01	0.69	26.29	18.3
CLIMB OUT	85	2.2	0.288	0.01	0.56	21.51	18.4
APPROACH	30	4.0	0.104	0.08	2.98	9.39	8.7
IDLE	7	26.0	0.048	4.30	30.21	4.20	3.4
LTO TOTAL FUEL (kg) or EMISSIONS (g)			152	325	2368	1751	-
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)				10.6	77.3	57.2	18.7
SIGMA (D _p /F _{oo} in g/kN, or SN)				0.8	1.9	0.1	
RANGE (D _p /F _{oo} in g/kN, or SN)				9.8-11.5	75.1-78.8	57.1-57.2	

ACCESSORY LOADS

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

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	96.5-97.5
TEMPERATURE (K)	292-296
ABS HUMIDITY (kg/kg)	0.0037-0.0057

FUEL

SPEC	Jet A
H/C	1.87
AROM (%)	16.5

MANUFACTURER: Honeywell
TEST ORGANIZATION: Honeywell
TEST LOCATION: Phoenix, AZ
TEST DATES: 10/01/2002-11/01/2002

REMARKS

Compliance with Fuel Venting requirements:

x ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)