

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: AS907-1-1A BYPASS RATIO: 4.2 PRESSURE RATIO $(\pi_{\circ\circ})$: 21.95 UNIQUE ID NUMBER: 8HN001 RATED OUTPUT $(F_{\circ \circ})$ (kN): ENGINE TYPE: TF 30.62

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	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 (NOx)			98.7 %	
AS % OF CAEP/4 LIMIT (NOx)			99.9 %	
AS % OF CAEP/6 LIMIT (NOx)			100.6 %	
AS % OF CAEP/8 LIMIT (NOx)			106.5 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

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NEWLY MANUFACTURED ENGINES

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

TEST ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

OUT OF PRODUCTION OUT OF SERVICE

MEASURED DATA

	POWER	TIME	FUEL FLOW	EMI:	SSIONS INDICES	(g/kg)	g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER	
	(%F ₀₀)							
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	4.3	30.21	4.2	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	77.28	57.16	18.7	
SIGMA (D_p/F_{oo} in g/kN , or SN)				0.8	1.9	0.08	_	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$				9.8-11.5	75.1-78.8	57.1-57.2	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	96.48-97.46
TEMPERATURE (K)	292-296
ABS HUMIDITY (kg/kg)	0.0037-0.0057

FUEL

SPEC	Jet A
H/C	1.866
AROM (%)	16.5

MANUFACTURER: Honeywell TEST ORGANIZATION: Honeywell TEST LOCATION: Phoenix, AZ FROM 10 Jan 02

TO 11 Jan 02 TEST DATES:

REMARKS

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

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