

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: HTF 7000 (AS907-1-1A) BYPASS RATIO: 4.2 21.95 UNIQUE ID NUMBER: 11HN002 PRESSURE RATIO $(\pi_{\circ\circ})$: ENGINE TYPE: MTF RATED OUTPUT (Foo) (kN): 30.62

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	CO	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	5.4	110.9	53.4	12.8
AS % OF ORIGINAL LIMIT	27.5 %	93.9 %	63.7 %	39.0 %
AS % OF CAEP/2 LIMIT (NOx)			79.6 %	
AS % OF CAEP/4 LIMIT (NOx)			80.6 %	
AS % OF CAEP/6 LIMIT (NOx)			81.1 %	
AS % OF CAEP/8 LIMIT (NOx)			77.3 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE

(ANNEX 16 VOLUME II)

CURRENT 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)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	0.347	0.04	0.6	18.095	9.9
CLIMB OUT	85	2.2	0.288	0.06	0.6	16.28	9
APPROACH	30	4.0	0.104	0.12	5.97	9.17	0.7
IDLE	7	26.0	0.048	1.35	34.5	3.98	1.7
LTO TOTAL FUE	L (kg) or EMIS	SIONS (g)	152	-	_	_	_
NUMBER OF ENG	INES			1	1	1	1
NUMBER OF TES	TS			4	4	4	4
AVERAGE D _p /F _{oo}	(g/kN) or AVE	RAGE SN (MAX)		3.5	90.31	46.09	9.92
SIGMA (Dp/Foo	in g/kN, or SN)	•	0.11	1.6	0.79	0.42
RANGE (D _p /F _{oo} in g/kN, or SN)			3.40-3.62	88.87-92.46	45.45-47.11	9.2-10.0	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	96.75-97.59
TEMPERATURE (K)	296-303
ABS HUMIDITY (kg/kg)	0.0013-0.0040

TO	TITLE
£	UEL

SPEC	Jet-A
H/C	13.6-13.7
AROM (%)	19.6-20.5

MANUFACTURER: Honeywell TEST ORGANIZATION: Honeywell TEST LOCATION: Phoenix, AZ

FROM 07 Apr 10 TEST DATES: TO 14 Apr 10

REMARKS

1. Reference: Original FAA Certification Report; Honeywell Report 21-14240-6A

2. Exhaust Smoke and Gaseous Emissions Test of the AS907-1-1A Turbofan Engine, dated August 31, 2010.

3. Reported using humidity h=0.00629 in accordance with 14 CFR 34

4. Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.

5. NOx levels in accordance with Part III, Chapter 2, 2.3.2 d) (CAEP/6)

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

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