



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION:	HTF7500E (AS907-3-1E-A3)	BYPASS RATIO:	4.2
UNIQUE ID NUMBER:	14HN008	PRESSURE RATIO $(\pi_{\circ\circ})$:	23.6
ENGINE TYPE:	MTF	RATED OUTPUT (F_{00}) (kN):	33.8

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	со	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	2.5	76.3	48.7	15.0
AS % OF ORIGINAL LIMIT	12.6 %	64.6 %	55.8 %	47.0 %
AS % OF CAEP/2 LIMIT (NOx)			69.8 %	
AS % OF CAEP/4 LIMIT (NOx)			71.3 %	
AS % OF CAEP/6 LIMIT (NOx)			72.1 %	
AS % OF CAEP/8 LIMIT (NOx)			76.8 %	

DATA STATUS

- _ PRE-REGULATION
- х CERTIFICATION
- REVISED (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE х (ANNEX 16 VOLUME II)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
- DEDICATED ENGINES TO PRODUCTION STANDARD х
- OTHER (SEE REMARKS)

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	0.378	0.05	0.56	19.06	13.6
CLIMB OUT	85	2.2	0.312	0.06	0.57	16.88	10.6
APPROACH	30	4.0	0.108	0.12	5.7	9.23	0.8
IDLE	7	26.0	0.050	0.84	28.08	4.04	1.6
LTO TOTAL FUEL	L (kg) or EMIS	SIONS (g)	161	72	2370	1552	-
NUMBER OF ENGINES			3	3	3	3	
NUMBER OF TESTS			10	10	10	10	
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)			2.12	70.5	45.94	13.6	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			0.48	4.83	2.33	1.57	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1.45-2.70	63.50-76.52	40.04-47.74	9.0-13.6	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)		96.44-97.59		
TEMPERATURE (K)		296-313		
ABS HUMIDITY (kg/kg)		0.0013-0.0125		
MANUFACTURER: TEST ORGANIZATION:		Honeywell Honeywell		
TEST LOCATION:		Phoenix, AZ		
TEST DATES:	FROM	07 Apr 10	ТО	-

FUEL	
SPEC	
H/C	

SPEC	Jet-A
H/C	13.5-13.7
AROM (%)	16.9-20.5

<u>REMARKS</u>

1. Reference: Honeywell Report 21-14050(29)-1

2. Exhaust Smoke and Gaseuos Emissions Similarity Analysis for the AS-907-3-1E Turbofan Engine

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

TO 29 Jul 10

4. NOx levels in accordance with Part III, Chapter 2, 2.3.2 e) (CAEP/8)

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

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