

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: HTF7350 (AS907-2-1A) BYPASS RATIO: PRESSURE RATIO $(\pi_{\circ\circ})$: 22.9 UNIQUE ID NUMBER: 14HN009 ENGINE TYPE: MTF RATED OUTPUT (Foo) (kN): 33.0

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	2.9	81.7	48.2	15.0
AS % OF ORIGINAL LIMIT	14.6 %	69.2 %	56.2 %	46.6 %
AS % OF CAEP/2 LIMIT (NOx)			70.2 %	
AS % OF CAEP/4 LIMIT (NOx)			71.6 %	
AS % OF CAEP/6 LIMIT (NOx)			72.3 %	
AS % OF CAEP/8 LIMIT (NOx)			76.9 %	

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		FUEL FLOW	EMISSIONS INDICES (g/kg)				
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	0.373	0.05	0.58	18.79	13.6
CLIMB OUT	85	2.2	0.309	0.06	0.59	16.64	10.6
APPROACH	30	4.0	0.107	0.12	5.98	9.03	0.8
IDLE	7	26.0	0.048	1	30.9	3.98	1.6
LTO TOTAL FUEL (kg) or EMISSIONS (g) 157				81	2501	1503	_
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)			2.45	75.55	45.47	13.6	
SIGMA (D_p/F_{oo} in g/kN, or SN)				0.54	3.83	2.28	1.57
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1.89-3.49	69.73-80.58	39.57-47.26	9.0-13.6	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	96.44-97.59
TEMPERATURE (K)	296-313
ABS HUMIDITY (kg/kg)	0.0013-0.0125

FUEL

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

MANUFACTURER . Honeywell TEST ORGANIZATION: Honeywell TEST LOCATION: Phoenix, AZ FROM 07 Apr 10 TEST DATES:

TO 29 Jul 10

1. Reference: Honeywell Report 21-14930(29)-1

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

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

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)