

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: PW1127G-JM BYPASS RATIO: 12.2 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 15PW105 32.1 RATED OUTPUT $(F_{\circ\circ})$ (kN): 120.4 ENGINE TYPE: TF

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.3	34.1	31.2	1.8
AS % OF ORIGINAL LIMIT	1.5 %	28.9 %	29.9 %	8.0 %
AS % OF CAEP/2 LIMIT (NOx)			37.4 %	
AS % OF CAEP/4 LIMIT (NOx)			43.8 %	
AS % OF CAEP/6 LIMIT (NOx)			49.4 %	
AS % OF CAEP/8 LIMIT (NOx)			57.4 %	

DATA STATUS

PRE-REGIILATION

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	0.800	0.03	0.22	17.76	1.4
CLIMB OUT	85	2.2	0.661	0.03	0.32	14.18	0.3
APPROACH	30	4.0	0.232	0.04	5.49	8.85	0.36
IDLE	7	26.0	0.090	0.11	21.47	6.55	0.56
LTO TOTAL FUE	L (kg) or EMIS	SIONS (g)	317	21	3348	3244	-
NUMBER OF ENG	INES			1	1	1	1
NUMBER OF TESTS			3	3	3	3	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			0.2	27.8	26.9	1.4	
SIGMA (D_p/F_{oo} in g/kN , or SN)			-	-	-	-	
RANGE (Dp/Foo in g/kN, or SN)			-	-	-	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	99.56 - 101.71
TEMPERATURE (K)	265.6 - 278.15
ABS HUMIDITY (kg/kg)	0.00071 - 0.00203

FUEL	

SPEC	Jet-A		
H/C 1.86			
AROM (%)	15.1 - 16.6		

TEST LOCATION: X0 1600 FROM 11 Mar 14 X8 Test Stand, East Hartford, CT TO 14 Mar 14

1. Data from Certification Report PWA-9968

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

3. 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)