

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: PW1130G-JM BYPASS RATIO: 11.7 UNIQUE ID NUMBER: 15PW106 PRESSURE RATIO (π_{oo}) : 35.5 ENGINE TYPE: TF RATED OUTPUT (F_{oo}) (kN): 134.0

REGULATORY DATA

CHARACTERISTIC VALUE:	НC	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.2	29.1	34.3	3.6
AS % OF ORIGINAL LIMIT	1.0 %	24.7 %	30.9 %	16.5 %
AS % OF CAEP/2 LIMIT (NOx)			38.6 %	
AS % OF CAEP/4 LIMIT (NOx)			44.0 %	
AS % OF CAEP/6 LIMIT (NOx)			49.0 %	
AS % OF CAEP/8 LIMIT (NOx)			56.1 %	

DATA STATUS

- PRE-REGULATION

x CERTIFICATION

- REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES

x DEDICATED ENGINES TO PRODUCTION STANDARD

- OTHER (SEE REMARKS)

EMISSIONS STATUS

x 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	0.910	0.03	0.17	21.16	2.8
CLIMB OUT	85	2.2	0.748	0.03	0.25	16.33	0.79
APPROACH	30	4.0	0.255	0.04	4.55	8.99	0.35
IDLE	7	26.0	0.094	0.07	19.48	6.78	0.55
LTO TOTAL FUE	L (kg) or EMIS	SIONS (g)	345	18	3174	3969	_
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)			0.1	23.7	29.6	2.8	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1	-	1	_	
RANGE $(D_p/F_{oo} \text{ in g/kN, or SN)}$			-	-	_	-	

ACCESSORY LOADS

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

F	UEL

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

MANUFACTURER: Pratt & Whitney
TEST ORGANIZATION: Pratt & Whitney

TEST ORGANIZATION:

TEST LOCATION:

X8 Test Stand, East Hartford, CT

TEST DATES:

FROM 11 Mar 14

TO 14 Mar 14

REMARKS

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)