

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: PW4460 BYPASS RATIO: 4.5 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 1 PW052 32.4 RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 266.9

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	3.4	33.3	61.1	10.7
AS % OF ORIGINAL LIMIT	17.3 %	28.2 %	58.3 %	59.1 %
AS % OF CAEP/2 LIMIT (NOx)			72.9 %	
AS % OF CAEP/4 LIMIT (NOx)			86.2 %	
AS % OF CAEP/6 LIMIT (NOx)			95.8 %	
AS % OF CAEP/8 LIMIT (NOx)			111.3 %	

DATA STATUS

PRE-REGULATION

CERTIFICATION

REVISED (SEE REMARKS)

EMISSIONS STATUS

DATA CORRECTED TO REFERENCE

(ANNEX 16 VOLUME II)

TEST ENGINE STATUS

NEWLY MANUFACTURED ENGINES ×

DEDICATED ENGINES TO PRODUCTION STANDARD

OTHER (SEE REMARKS)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)

OUT OF PRODUCTION (DATE: -)

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	2.647	0.1	0.37	32.8	8.3
CLIMB OUT	85	2.2	2.085	0.03	0.51	24.7	_
APPROACH	30	4.0	0.703	0.14	1.78	12	_
IDLE	7	26.0	0.213	1.66	20.32	4.9	_
LTO TOTAL FUEL (kg) or EMISSIONS (g) 887				595	7234	14097	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)				2.2	27.1	52.7	8.3
SIGMA (D_p/F_{oo} in g/kN , or SN)				ı	-	-	-
RANGE (D _p /F _{oo} in g/kN, or SN)			ı	1	ı	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	100.2
TEMPERATURE (K)	299
ABS HUMIDITY (kg/kg)	0.01

FUEL

SPEC	Jet A
H/C	1.88
AROM (%)	19.7

MANUFACTURER: Pratt & Whitney

TEST ORGANIZATION:

TEST LOCATION:

TEST DATES:

FROM 17 Aug 87

TO 23 Aug 87

Data from X698-5 with reduced smoke combustor.

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

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