

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

** DATA SUPERSEDED ** SEE SHEET: 10PW099

ENGINE IDENTIFICATION: PW4090 BYPASS RATIO: 6.1 PRESSURE RATIO $(\pi_{\circ\circ})$: 39.16 UNIQUE ID NUMBER: 3PW066 RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 395

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	3.9	27.5	92.8	9.2
AS % OF ORIGINAL LIMIT	19.9 %	23.3 %	78.4 %	56.6 %
AS % OF CAEP/2 LIMIT (NOx)			98.0 %	
AS % OF CAEP/4 LIMIT (NOx)			108.8 %	
AS % OF CAEP/6 LIMIT (NOx)			120.1 %	
AS % OF CAEP/8 LIMIT (NOx)			135.6 %	

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 FU		FUEL FLOW	EMISSIONS INDICES (g/kg)				
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	3.898	0.03	0.19	61	7.1
CLIMB OUT	85	2.2	2.977	0.03	0.23	42.8	3.4
APPROACH	30	4.0	0.957	0.06	0.44	13.19	1
IDLE	7	26.0	0.268	2.3	20.63	4.29	0
LTO TOTAL FUEL (kg) or EMISSIONS (g) 1204				992	8848	31629	_
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)			2.52	22.38	80.08	7.12	
SIGMA (D_p/F_{oo} in g/kN , or SN)			1	_	1	_	
RANGE $(D_p/F_{oo} \text{ in g/kN, or SN})$			_	_	-	_	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	101.06-101.56
TEMPERATURE (K)	292.8-302.6
ABS HUMIDITY (kg/kg)	.00970112

FUEL

SPEC	Jet A
H/C	-
AROM (%)	-

TEST LOCATION: Pract & Whitney
TEST LOCATION: Fact " ...

TEST ORGANIZATION: East natural East Hartford, Conn, USA

TO 16 Jun 96

REMARKS

Data from Report PWA-6678

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

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