

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2A2 BYPASS RATIO: 5.1 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 1GE016 2.8 RATED OUTPUT $(F_{\circ\circ})$ (kN): 233.35 ENGINE TYPE: TF

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	17.6	69.1	45.8	7.6
AS % OF ORIGINAL LIMIT	89.6 %	58.6 %	47.7 %	40.6 %
AS % OF CAEP/2 LIMIT (NOx)			59.7 %	
AS % OF CAEP/4 LIMIT (NOx)			71.8 %	
AS % OF CAEP/6 LIMIT (NOx)			81.6 %	
AS % OF CAEP/8 LIMIT (NOx)			96.8 %	

DATA STATUS

PRE-REGIILATION

CERTIFICATION

REVISED (SEE REMARKS) Х

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	2.117	0.08	0.57	27.93	6.5
CLIMB OUT	85	2.2	1.745	0.1	0.55	20.69	4
APPROACH	30	4.0	0.580	0.23	2.94	9.44	2.3
IDLE	7	26.0	0.189	10.48	46.01	3.95	3.1
LTO TOTAL FUE	L (kg) or EMIS	SIONS (g)	753	3152	14152	9728	_
NUMBER OF ENG	INES			2	2	2	2
NUMBER OF TESTS			3	3	3	3	
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)			13.5	60.64	41.68	6.5	
SIGMA (D_p/F_{oo} in g/kN , or SN)			1.25	3.08	0.42	1	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			12.42-14.60	57.97-63.34	41.31-42.14	5.4-7.3	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.40-97.82
TEMPERATURE (K)	287 - 296
ABS HUMIDITY (kg/kg)	.00840140

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: GE Aircraft Engines
TEST ORGANIZATION: CF6 Evaluation Engineering
TEST LOCATION: TEST LOCATION: Site i.i.,
FROM 29 May 85 Site IIIC, PTO, Peebles, Ohio

TO 03 Jun 85

REMARKS

1. Ref GE Report R85AEB486.

2. Engine S/N's 690105 and 690005/2.

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

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