

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-45A2 BYPASS RATIO: 4.3 PRESSURE RATIO (π_{oo}) : 25.9 UNIQUE ID NUMBER: 1GE005 RATED OUTPUT (Foo) (kN): ENGINE TYPE: TF 202.8

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	44.2	107.7	56.5	4.9
AS % OF ORIGINAL LIMIT	225.3 %	91.3 %	61.6 %	25.2 %
AS % OF CAEP/2 LIMIT (NOx)			77.0 %	
AS % OF CAEP/4 LIMIT (NOx)			93.5 %	
AS % OF CAEP/6 LIMIT (NOx)			106.3 %	
AS % OF CAEP/8 LIMIT (NOx)			127.4 %	

DATA STATUS

PRE-REGULATION x

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	2.058	0.7	0.5	31	2.9
CLIMB OUT	85	2.2	1.716	0.7	0.5	26.2	2.2
APPROACH	30	4.0	0.583	1.1	7.5	8.4	2.9
IDLE	7	26.0	0.200	26	66	3.3	4.6
LTO TOTAL FUEL (kg) or EMISSIONS (g) 765			765	8485	21798	10819	_
NUMBER OF ENGINES				6	6	6	6
NUMBER OF TESTS				6	6	6	6
AVERAGE D_p/F_{oo} (g/kN) or AVERAGE SN (MAX)			39.7	102	54.3	4.6	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			3.8	4.6	0.5	1.5	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	-	=	-	

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.3-100.4
TEMPERATURE (K)	270 - 296
ABS HUMIDITY (kg/kg)	.00270103

MANUFACTURER: GE Aircraft Engines
TEST ORGANIZATION: Production Engine Test
TEST LOCATION:

TEST ORGANIANT:
TEST LOCATION: Production.
FROM 12 Oct 79 Production Test Cells M34 & M35 TO 05 Dec 79

1. Ref Report no FAA-EE-80-27 (GE Report R80AEG420)

FUEL

SPEC	Jet A
H/C	1.92
AROM (%)	17.1

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

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