

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: V2530-A5 BYPASS RATIO: 4.54 PRESSURE RATIO $(\pi_{\circ\circ})$: UNIQUE ID NUMBER: 1TA005 32.1 RATED OUTPUT $(F_{\circ\circ})$ (kN): 133.4 ENGINE TYPE: MTF

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.4	24.2	67.2	11.6
AS % OF ORIGINAL LIMIT	2.0 %	20.5 %	64.5 %	53.0 %
AS % OF CAEP/2 LIMIT (NOx)			80.7 %	
AS % OF CAEP/4 LIMIT (NOx)			94.4 %	
AS % OF CAEP/6 LIMIT (NOx)			106.4 %	
AS % OF CAEP/8 LIMIT (NOx)			123.7 %	

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

FUEL

(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	1.331	0.045	0.45	33.8	4.9
CLIMB OUT	85	2.2	1.077	0.041	0.52	27.1	6.4
APPROACH	30	4.0	0.377	0.056	1.81	10.1	4.6
IDLE	7	26.0	0.138	0.1	10.95	5	2.4
LTO TOTAL FUEL (kg) or EMISSIONS (g) 504			504	35	2620	7732	_
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)			0.26	19.7	58	9	
SIGMA $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			1	_	-	_	
RANGE $(D_p/F_{oo} \text{ in } g/kN, \text{ or } SN)$			-	_	-	_	

ACCESSORY LOADS

0 (kW) 4.5 % CORE FLOW POWER EXTRACTION 0 POWER SETTINGS STAGE BLEED 0.07 POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	101.0-101.8		
TEMPERATURE (K)	288 - 296		
ABS HUMIDITY (kg/kg)	.00860114		

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

MANUFACTURER: International Aero Engines
TEST ORGANIZATION: Pratt & Whitney
TEST LOCATION:

East Hartford, CT, USA

TEST ORGANICALLE
TEST LOCATION: East mail.
FROM 12 Aug 92 TO 13 Aug 92

1. Engine Type description originally wrongly given as TF; amended in Issue 15 to MTF

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

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