



ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: V2528-D5
UNIQUE ID NUMBER: 1IA004
ENGINE TYPE: MTF

BYPASS RATIO: 4.66
PRESSURE RATIO (π_{00}): 30
RATED OUTPUT (F_{00}) (kN): 124.5

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NOx	SMOKE NUMBER
D_p/F_{00} (g/kN) or SN	0.4	26.4	62.2	11.6
AS % OF ORIGINAL LIMIT	2.1 %	22.4 %	62.2 %	52.0 %
AS % OF CAEP/2 LIMIT (NOx)			77.8 %	
AS % OF CAEP/4 LIMIT (NOx)			92.9 %	
AS % OF CAEP/6 LIMIT (NOx)			105.6 %	
AS % OF CAEP/8 LIMIT (NOx)			124.1 %	

DATA STATUS

- PRE-REGULATION
x CERTIFICATION
- REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
- DEDICATED ENGINES TO PRODUCTION STANDARD
- OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
x OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE

MEASURED DATA

MODE	POWER SETTING (% F_{00})	TIME minutes	FUEL FLOW kg/s	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
TAKE-OFF	100	0.7	1.209	0.043	0.47	30.5	5
CLIMB OUT	85	2.2	0.996	0.041	0.56	25.1	6.6
APPROACH	30	4.0	0.353	0.058	2.03	9.6	4.5
IDLE	7	26.0	0.134	0.102	11.53	4.9	2.4
LTO TOTAL FUEL (kg) or EMISSIONS (g)			476	34	2680	6686	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D_p/F_{00} (g/kN) or AVERAGE SN (MAX)				0.27	21.5	53.7	9
SIGMA (D_p/F_{00} in g/kN, or SN)				-	-	-	-
RANGE (D_p/F_{00} in g/kN, or SN)				-	-	-	-

ACCESSORY LOADS

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

AT - POWER SETTINGS
AT 0.07 POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	101.0-101.8
TEMPERATURE (K)	288 - 296
ABS HUMIDITY (kg/kg)	.0086-.0114

FUEL

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

MANUFACTURER: International Aero Engines
TEST ORGANIZATION: Pratt & Whitney
TEST LOCATION: East Hartford, CT, USA
TEST DATES: FROM 12 Aug 92 TO 13 Aug 92

REMARKS

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)