

ICAO ENGINE EXHAUST EMISSIONS DATA BANK

SUBSONIC ENGINES

ENGINE IDENTIFICATION: V2522-A5 SelectOne™ Upgrade BYPASS RATIO: 4.9 PRESSURE RATIO $(\pi_{\circ\circ})$: 25.7 UNIQUE ID NUMBER: 10IA011 ENGINE TYPE: MTF RATED OUTPUT (Foo) (kN): 102.5

REGULATORY DATA

CHARACTERISTIC VALUE:	НС	СО	NOx	SMOKE NUMBER
D_p/F_{oo} (g/kN) or SN	0.5	30.9	49.0	11.1
AS % OF ORIGINAL LIMIT	2.5 %	26.2 %	53.6 %	47.1 %
AS % OF CAEP/2 LIMIT (NOx)			67.0 %	
AS % OF CAEP/4 LIMIT (NOx)			81.5 %	
AS % OF CAEP/6 LIMIT (NOx)			92.6 %	
AS % OF CAEP/8 LIMIT (NOx)			111.2 %	

DATA STATUS

PRE-REGIILATION

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	FUEL FLOW	EMI	SSIONS INDICES	(g/kg)	
MODE	SETTING	minutes	kg/s	HC	CO	NOx	SMOKE NUMBER
	(%F ₀₀)						
TAKE-OFF	100	0.7	0.971	0.03	0.43	21.34	7.3
CLIMB OUT	85	2.2	0.815	0.04	0.44	18.33	8.1
APPROACH	30	4.0	0.310	0.07	2.55	9.32	3.2
IDLE	7	26.0	0.130	0.14	12.49	5.09	1.7
LTO TOTAL FUEL (kg) or EMISSIONS (g) 425			39	2780	4563	_	
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS			4	4	4	4	
AVERAGE D _p /F _{oo} (g/kN) or AVERAGE SN (MAX)			0.4	27.1	44.5	9.4	
SIGMA (D_p/F_{oo} in g/kN , or SN)			1	_	-	_	
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)	100.35-102.88
TEMPERATURE (K)	268.2-277.7
ABS HUMIDITY (kg/kg)	0.00140-0.00359

FUEL

SPEC	JET A
H/C 1.91	
AROM (%)	17

MANUFACTURER: IAE International Aero Engines
TEST ORGANIZATION: Pratt & Whitney
TEST LOCATION: TEST LOCATION: East nature FROM 11 Dec 08 East Hartford, CT

TO 19 Jan 09

REMARKS

1. Engine performance reflects new SelectOne $^{\text{\tiny{TM}}}$ package upgrades.

2. Certification in accordance with Part III, Chapter 2, of Amendment 6 of ICAO Annex 16 Vol. II.

3. NOx levels in accordance with Part III, Chapter 2, 2.3.2 d) (CAEP/6)

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

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