



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: V2530-A5 SelectOne™ Upgrade Package BYPASS RATIO: 4.6
UNIQUE ID NUMBER: 01P10IA024 PRESSURE RATIO (π_{co}): 32.0
COMBUSTOR: Floatwall
ENGINE TYPE: MTF RATED THRUST (F_{oo}) (kN): 133.0

REGULATORY DATA

** DATA SUPERSEDED **

SEE FOLLOWING UID FOR REVISED DATA:

04P10IA027

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F _{oo} (g/kN) or SN	0.4	22.2	61.3	11.1
AS % OF ORIGINAL LIMIT	1.9	18.8	59.0	50.5
AS % OF CAEP/2 LIMIT (NO _x)			73.7	
AS % OF CAEP/4 LIMIT (NO _x)			86.4	
AS % OF CAEP/6 LIMIT (NO _x)			97.4	
AS % OF CAEP/8 LIMIT (NO _x)			113.3	

For non-volatile particulate matter (nvPM) emissions, please refer to the ICAO Engine nvPM Emissions Data Sheet.

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 (DATE: -)

MEASURED DATA

MODE	POWER	TIME	FUEL FLOW	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
	SETTING (%F _{oo})	(minutes)	(kg/s)	HC	CO	NO _x	
TAKE-OFF	100	0.7	1.325	0.02	0.39	31.43	3.7
CLIMB OUT	85	2.2	1.078	0.03	0.41	23.92	6.6
APPROACH	30	4.0	0.387	0.06	1.65	10.92	5.7
IDLE	7	26.0	0.145	0.12	10.45	5.52	1.4
LTO TOTAL FUEL (kg) or EMISSIONS (g)			517	38	2594	7414	–
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)				0.3	19.5	55.7	9.4
SIGMA (D _p /F _{oo} in g/kN, or SN)							
RANGE (D _p /F _{oo} in g/kN, or SN)							

ACCESSORY LOADS

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

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	100.4-102.9
TEMPERATURE (K)	268.2-277.7
ABS HUMIDITY (kg/kg)	0.0014-0.00359

FUEL

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

MANUFACTURER: International Aero Engines
TEST ORGANIZATION: Pratt & Whitney
TEST LOCATION: East Hartford, CT
TEST DATES: 11/12/2008-19/01/2009

NO_x REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
x	2.3.2 d) (CAEP/6)
	2.3.2 e) (CAEP/8)

REMARKS

- Engine performance reflects new SelectOne™ package upgrades.
- Certification in accordance with Part III, Chapter 2, of Amendment 6 of ICAO Annex 16 Vol. II.
- NO_x levels in accordance with Part III, Chapter 2, 2.3.2 d) (CAEP/6)

Compliance with Fuel Venting requirements:

x ('x' if complies, 'PR' if pre-regulation,
'- ' if information is not available)