MPC Resolution 2 of the 1997 MARPOL Conference 30 Technical Code on Control of Emission of (July 2004) Nitrogen Oxides from Marine Diesel Engines

 $Table \ 3-Symbols \ and \ subscripts \ for \ terms \ and \ variables \ used \ in \ the \ formulae \ for \ the \\ test-bed \ measurement \ methods$

Table 3 gives:

Symbol	Term	Dimension
p_a	Saturation vapour pressure of the engine intake air (in ISO 3046-1, 1995: $p_{sy} = PSY$, test ambient vapour pressure)	kPa
p_B	Total barometric pressure (in ISO 3046-1, 1995: $p_x = PX$, site ambient total pressure; py = PY, test ambient total pressure)	kPa
p_s	Dry atmospheric pressure	kPa
R_a	Relative humidity of the intake air	%
T_a	Absolute temperature of the intake air	K

Interpretation:

For application of the term " p_s " it shall be interpreted that the dry atmospheric pressure is determined in accordance with the following formula:

$$p_S = p_B - \frac{R_a \bullet p_a}{100}$$

It shall also be interpreted that the p_a term be determined using a temperature value for the intake air measured at the same physical location as the measurements for p_B and R_a .

Interpretation:

For application of the term " T_a " it shall be interpreted that the temperature of the intake air temperature is that determined at the engine / turbocharger intake suction filter.

Note:

This UI is to be uniformly implemented by IACS Societies from 19 May 2005.

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