
MPC Resolution 2 of the 1997 MARPOL Conference

68 Technical Code on Control of Emission of

(July 2004)

Nitrogen Oxides from Marine Diesel Engines

Chapter 5.9.3.1

Chapter 5.9 Test Run

Chapter 5.9.3 Sampling for gaseous emissions

Chapter 5.9.3.1 reads as follows:

The sampling probes for the gaseous emissions shall be fitted at least 0.5m or 3 times the diameter of the exhaust pipe – whichever is the larger – upstream of the exit of the exhaust gas system, as far as practicable, but sufficiently close to the engine so as to ensure an exhaust gas temperature of at least 343K (70°C) at the probe.

Interpretation:

Recognising that successful measurement of gaseous HC requires an exhaust gas temperature of at least 190°C, the 70°C requirement shall be interpreted as a minimum exhaust gas temperature requirement at the NO_x sampling probe where that differs from the HC sampling probe. In the latter case a minimum temperature of 463 K (190°C) at the probe is required.

With regard to the HC sampling system, a heated filter and sampling line shall be provided between the sampling probe and the HC analyser. The filter shall extract any solid particles from the gas sample before the analyser and be changed as necessary. The temperature of the heated filter and the wall temperature of the heated line shall be 463 K (190°C) ± 10 K.

Note:

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

