
MPC 69 Resolution 2 of the 1997 MARPOL Conference
(July 2004) **Technical Code on Control of Emission of Nitrogen Oxides from Marine Diesel Engines**

Chapter 5.9.3.2

Chapter 5.9 Test Run

Chapter 5.9.3 Sampling for gaseous emissions

Chapter 5.9.3.2 reads as follows:

In the case of a multi-cylinder engine with a branched exhaust manifold, the inlet of the probe shall be located sufficiently far downstream so as to ensure that the sample is representative of the average exhaust emission from all cylinders. In multi-cylinder engines having distinct groups of manifolds, such as in a “Vee” engine configuration, it is permissible to acquire a sample from each group individually and calculate an average exhaust emission. Other methods which have been shown to correlate with the above methods may be used. For exhaust emission calculation, the total exhaust mass flow must be used.

Interpretation:

In the case of multiple turbocharger arrangements it shall be interpreted that where it is not possible to sample the exhaust gas from a position after where the individual turbocharger tailpipes have combined into a single duct then the exhaust gas must be sampled downstream of each turbocharger and analysed. The individual measurement readings shall be averaged as necessary to provide the emission concentrations which are representative of the emissions from all cylinders.

Note:

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

