

The Diesel Engine and the Environment

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Abstract

Exhaust emission control has become an important factor in the marine and offshore industry in recent years. The importance of this dimension will increase further in the years ahead as marine environmental regulations become tighter and public awareness of 'green' issues continues to grow. This paper shows the proposed international and local U.S. regulations and when each will enter into force, as well as which diesel engines will be affected. The first part of the paper shows the typical composition of diesel engine exhaust with discussions around the environmentally harmful elements. The current legislation is concentrating on the reduction of NO_x emissions. Therefore, most of the remaining part of the paper concentrates on the industry solutions, both primary and secondary methods, to reduce the NO_x emissions to meet the current and future diesel engine emission regulations. The final part of the paper looks at how particles and smoke emissions are reduced.

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