

ICS 47.020.20

CCS U 44



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 36662-2018

**Selective catalytic reduction exhaust treatment systems for
marine diesel engines**

船用柴油机SCR排气后处理系统

Issued on: September 17, 2018

Implemented on: April 1, 2019

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard is proposed and managed by the National Marine Machinery Standardization Technical Committee (SAC/TC137). This standard was drafted. China Shipbuilding Industry Comprehensive Technology and Economic Research Institute, Weichai Heavy Machinery Co., Ltd., Jianyang Baoxing Power Machinery Co., Ltd., China Shipbuilding Industry Corporation, the 711st Research Institute, Harbin Engineering University. The main drafters of this standard. Sun Meng, Yang Liping, Zhan Chaorun, Shen Feixiang, Wang Jiyong, Mo Guangjie, Zhang Jun, Xiong Xiaolong. Marine diesel engine SCR exhaust aftertreatment system

1 Scope

China's national standard for selective catalytic reduction exhaust aftertreatment systems on marine diesel engines. It specifies the requirements, the test methods, the inspection rules and the marking and packaging. SCR is how a large diesel engine meets the strictest nitrogen oxide limits: urea solution is injected into the exhaust, decomposes to ammonia, and reacts with the nitrogen oxides over a catalyst to give nitrogen and water. On a ship the arrangement raises problems it does not raise on a truck. The reactor is large enough to be a structural item in the engine room and its position relative to the turbocharger determines the exhaust temperature it sees - too cold and the catalyst does not work, and ammonium salts form and block it. The urea has to be carried in quantity, stored where it will not freeze or degrade, and replenished in ports that may not supply it. And the system must work across an engine load range far wider than a road vehicle's.

This standard specifies the requirements, test methods, inspection rules, and requirements for selective catalytic reduction (SCR) exhaust aftertreatment systems for marine diesel engines. Marking, packaging, transportation and storage. This standard applies to the design, manufacture and acceptance of SCR exhaust aftertreatment systems for marine diesel engines (hereinafter referred to as "SCR systems"). The SCR system used by him can also be referred to.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 packaging storage and transportation icon

GB/T 2423.1 Environmental testing of electrical and electronic products - Part 2. Test methods Test A. Low temperature

GB/T 2423.2 Environmental testing of electric and electronic products - Part 2. Test method Test B. High temperature

GB/T 2423.3 Environmental testing - Part 2. Test method test Cab. constant damp heat test

GB/T 2423.10 Environmental testing of electric and electronic products - Part 2. Test method test Fc. Vibration (sinusoidal)

GB/T 2423.16-2008 Environmental testing for electric and electronic products - Part 2. Test methods Test J and guide.

GB/T 2423.17 Environmental testing of electric and electronic products - Part 2. Test method test Ka. salt spray

GB/T 2423.101 Environmental testing for electric and electronic products - Part 2. Test method test. Tilt and sway

GB/T 9969 General guidelines for the use of industrial products

GB/T 10250-2007 Electromagnetic compatibility of marine electrical and electronic equipment GB/T 13306 signage

GB/T 17626.2 Electromagnetic compatibility test and measurement technology Electrostatic discharge immunity test

GB/T 17626.3 Electromagnetic compatibility test and measurement technology RF electromagnetic field radiation immunity test

GB/T 17626.4 Electromagnetic compatibility test and measurement technology Electrical fast transient burst immunity test

3 Terms and definitions

The following terms and definitions apply to this document.