

ICS 47.020.20

CCS U 44



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

GB/T 47317-2026

Marine methanol fuel engines

船用甲醇燃料发动机

Issued on: March 31, 2026

Implemented on: July 1, 2026

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

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Marine Machinery (SAC/TC137). This document was drafted by: Comprehensive Technology and Economic Research Institute of China State Shipbuilding Corporation Limited, and the 711th Research Institute of China State Shipbuilding Corporation Limited. Research Institute, Zibo Diesel Power Co., Ltd., China Shipbuilding Power Research Institute Co., Ltd., Weichai Heavy Machinery Co., Ltd., Guangxi Yuchai Marine Electric Power Co., Ltd. The companies mentioned include Chongqing Cummins Engine Co., Ltd., Shanghai Maritime University, Tianjin University, and Hanma Technology Group Co., Ltd. The main drafters of this document are. Wang Feng, Sun Meng, Liang Gang, Zhang Dongming, Xin Qiangzhi, Yang Tao, Jin Chao, Yin Xiaoqing, Lü Bin, Gui Yong, and Xu Congcong. Zheng Liang, Song Yali, Guo Lijun, Yin Yifan, Xu Jianxin, Zhu Qing, Zhang Wenzheng, Liu Haoye, Cao Jing, Zeng Zhilong, Wang Meng, Liu Xiaoyu, Jin Jiangshan, Zheng Shengbing Zeng Xianyou, Chen Zhilin, Gu Feng, Liu Haifeng, Huang Yongzhong, Li Gang, Wang Zhongcheng, Lü Lin, Liu Zhiqiang. Marine methanol fuel engine

1 Scope

GB/T 47317-2026 is the Chinese national standard covering the marine engine burning methanol - one of the few alternative fuels that is liquid at ambient conditions, with the fuel system materials, the pilot ignition, the emissions and the safety of a fuel that is toxic and burns invisibly. Methanol has become the fuel a large share of new container ship orders are specified for. First edition, in force since 1 July 2026, with the road counterpart GB/T 47585-2026. It was issued on 31 March 2026 and has been in force since 1 July 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 edition; the clause text

of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document describes the classification, models, and test methods for marine methanol-fueled engines (hereinafter referred to as "engines"), and specifies the engine... Technical requirements, inspection rules, marking, packaging, transportation and storage. This document applies to the design, manufacture, testing, and acceptance of marine methanol-fueled engines.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 191 Packaging and Storage Graphic Symbols

GB/T 338 Industrial Methanol

GB/T 725 Rules for Compiling Product Names and Model Numbers for Internal Combustion Engines

GB/T 3475-2025 Technical requirements and test methods for speed control systems of marine diesel engines

GB/T 6072.1-2008 Performance of reciprocating internal combustion engines - Part

1. Calibration and testing of power, fuel consumption and oil consumption Additional requirements for general-purpose engines

GB/T 6388 Transport Packaging Receipt and Delivery Marks

GB/T 9911 Measurement Method for Airborne Noise Radiated by Marine Diesel Engines

GB 11871-2009 Limits for airborne noise radiated by marine diesel engines GB/T 13306 Nameplates

GB 15097-2016 Emission Limits and Measurement Methods for Exhaust Pollutants from Marine Engines (China Phase I and II) CB/T 3154 Vibration Measurement Method for Marine Diesel Engines CB/T 3253-2013 Technical Specifications for Marine Diesel Engines CB/T 3254.1-2013 Marine diesel engines bench test - Part

1. Standard reference conditions and power, fuel consumption and oil consumption Consumption calibration CB/T 3254.2-2013 Marine diesel engines - Bench tests - Part

2. Test methods CB/T 3256-2013 Vibration rating for marine diesel engines CB/T 3325-2013 Torsional Vibration Rating of Marine Diesel Engine Shafts CB/T 3853 Method for measuring

vibration of marine diesel engine shafting CB/T 4147 Method for Determining Fuel Consumption Rate of Marine Diesel Engines China Classification Society's Classification Rules for Steel Seagoing Ships (2024)

3 Terms and Definitions

The following terms and definitions apply to this document.

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