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

GB/T 33485-2017

**Large yachts -- Diesel engines for main propulsion and
essential auxiliaries -- Safety requirements**

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to the international standard ISO 14885..2014 "large yacht main auxiliary diesel engine safety requirements".

This standard has made the following editorial changes.

The first 12 items of the International Standard Reference are in the international standard format requirements. This standard is not listed in the references.

This standard is proposed by China Shipbuilding Industry Corporation.

This standard is nationalized by the National Marine Vessel Standardization Technical Committee Large-scale Yacht Subcommittee (SAC/TC12/SC9).

The drafting of this standard unit. China Shipbuilding Industry Comprehensive Technology and Economic Research Institute, Weichai Heavy Machinery Co., Ltd., Harbin Engineering University, boat

Mountain Quality and Technical Supervision and Testing Institute.

1 Scope

This standard specifies the safety requirements for diesel engines installed on large yachts with a rated power of not less than 100 kW for propulsion and power generation.

This standard is a large yacht in accordance with GB/T 19916-2005 hull length of not less than 24m, gross tonnage (GT) less than 500, exercise or

For leisure and entertainment, do not carry the goods, carrying passengers not more than 12 commercial boats.

This standard diesel engine is the engine that can achieve the yacht power output limit.

This standard does not apply to diesel engines for emergency power generation.

2 normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article

Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 19916-2005 Main data for boats (ISO 8666..2002, IDT)

GB/T 28561-2012 Marine electrical equipment alarm control and measuring instruments (IEC 60092-504..2001, IDT)

ISO 3046-1 Reciprocating internal combustion engine performance - Part 1. Calibration of power, fuel consumption and oil consumption and test methods

With the additional requirements of the engine

(Reciprocating internal combustion engines-Performance-Part 1. Declarations

of power, fuel and lubricating oil consumptions, and test methods-Additional requirements for engines for general use

ISO 7840 Boat Fire-resistant Fire Hose (Smallcraft-Fire-resistant fuel hoses)

ISO 12100 Mechanical Safety Design General Risk Assessment and Risk Reduction (Safety of machinery-General

principles for design-Risk assessment and risk reduction

ISO 13732-1 Human environment of thermal environment - Assessment method for contact surfaces of human beings - Part 1. Thermal surface (Ergonomics

of thermal environment-methods for the assessment of human response to contact with surfaces-Part 1. Hot surfaces

ISO 15540 Ship and marine technology - Test method for fire resistance of hose assemblies (Ships and marine technology-

Fire resistance of hose assemblies-Test methods)

ISO 25197 Steering wheel of electric/electronic control system, shift, throttle (Smallcraft-Electrical/electronic

control systems for steering, shift and throttle)

IEC 60068-2-6 Environmental testing for electric and electronic products - Part 2-6. Test methods - Test Fc. Vibration (sinusoidal) [Environ-

mental testing-Part 2-6. Test Fc vibration (sinusoidal)]

IEC 60092-101 Marine Electrical Equipment Definitions and General Provisions
(Electrical installations in ships - Part 101.

Definitions and general requirements

IEC 60533 Electromagnetic compatibility of electrical and electronic equipment (Electrical and electronic installations in ships -

Electromagnetic compatibility

IEC 60332-2-1 Cables and cables - Combustion tests under flame conditions - Part 2-1.

Single insulated fine wire and cable flame

Straight Spread Test Test Device

(Tests on electric and optical fibre cables under fire conditions - Part 2-1. Test

for vertical flame propagation for a single small insulated wire or cable - app

IEC 60332-2-2 Burning tests for cables and cables under flame conditions - Part 2-2. Single
insulated fine wire and cable flame