

BS ISO 14885:2014



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

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National foreword

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

*Grands yachts — Moteurs diesel pour la propulsion principale et les
moteurs auxiliaires essentiels — Exigences de sécurité*



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Engine requirements	5
4.1 General requirements.....	5
4.2 Risk assessment.....	5
4.3 Ambient conditions.....	5
4.4 Inclinations.....	5
4.5 Surface temperature.....	6
4.6 Vibrations.....	6
4.7 Component testing.....	6
4.8 Service conditions.....	6
4.9 Drainage.....	6
4.10 Intake and exhaust system.....	6
4.11 Crankcase.....	6
4.12 Lubrication oil system.....	7
4.13 Fuel system.....	7
4.14 Cooling water system.....	7
4.15 Starting capability.....	7
4.16 Electrical equipment.....	8
4.17 Engine controls.....	8
4.18 Programmable electronics.....	9
4.19 Alarm and safety system.....	9
5 Installation instructions	10
6 Operating and maintenance instructions	10
7 Marking	10
8 Diesel engine qualification, manufacturing and testing	11
8.1 General.....	11
8.2 Type approval of mass produced diesel engines.....	11
8.3 Manufacturing of mass produced diesel engines.....	13
8.4 Factory acceptance testing (FAT) and certification of mass produced diesel engines.....	13
Annex A (informative) List of typical hazards	15
Bibliography	16

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

The committee responsible for this document is ISO/TC 8, *Ships and marine technology*, Subcommittee 12, *Large yachts*.

Introduction

This International Standard defines the safety requirements for diesel engines installed in large yachts and promotes a risk based approach for diesel engines intended for propulsive or essential auxiliaries for power generation.

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

1 Scope

This International Standard specifies the safety requirements for diesel engines with a rated power of 100kW and over for propulsion and essential auxiliaries for power generation for large yachts 24 m and over in hull length, measured in accordance with ISO 8666:2002, and of less than 500 GT which are in commercial use for sport or pleasure, and do not carry cargo and do not carry more than twelve passengers.

The engine in terms of this International Standard is understood as the prime mover up to its driving extremity(ies) for power take off(s).

This International Standard does not cover engines used for generating the emergency source of electrical power.

2 Normative references

The following referenced documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3046-1, *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, *Small craft — Fire-resistant fuel hoses*

ISO 8666:2002, *Small craft — Principal data*

ISO 12100, *Safety of machinery — General principles for design — Risk assessment and risk reduction*

ISO 13732-1, *Ergonomics of the thermal environment — Methods for the assessment of human responses to contact with surfaces — Part 1: Hot surfaces*

ISO 15540, *Ships and marine technology — Fire resistance of hose assemblies — Test methods*

ISO 25197, *Small craft — Electrical/electronic control systems for steering, shift and throttle*

IEC 60068-2-6, *Environmental testing — Part 2-6: Test Fc Vibration (sinusoidal)*

IEC 60092-101, *Electrical installations in ships — Part 101: Definitions and general requirements*

IEC 60092-504:2001, *Electrical Installations in ships — Part 504: Special Features — Control and Instrumentation*

IEC 60332-2-1, *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 — Apparatus*

IEC 60332-2-2, *Tests on electric and optical fibre cables under fire conditions — Part 2-2: Test for vertical flame propagation for a single small insulated wire or cable — Procedure for diffusion flame*

IEC 60533, *Electrical and Electronic Installations in Ships — Electromagnetic Compatibility*

IEC 60695-11-5, *Fire hazard testing — Part 11-5: Test flames — Noodle flame test method — Apparatus, confirmatory test arrangement and guidance*