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

GB/T 14363-2009

Replacing GB/T 14363-1993

**Measure method of lubricating oil consumption for diesel
engines**

柴油机机油消耗测定方法

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Foreword

This standard replaces GB/T 14363-1993 "Diesel oil consumption measurement method."

This standard and GB/T 14363-1993 compared to the main changes are as follows:

--- Oil consumed was determined by the power and speed according to GB/T 6072.1-2000 relevant regulations were modified;

--- Clear determination of mechanical and electronic control oiler cylinder oil consumption.

Appendix A of this standard is an informative annex. The standard proposed by China Shipbuilding Industry Corporation. This standard by the National Standardization Technical Committee diesel marine machinery Technical Committee. This standard was drafted. China Shipbuilding Industry Corporation seventh eleven Institute. The main drafters of this standard. Ren Lin, Liang Gang, high Deming, Ji Wen. This standard replaces the standards previously issued as follows:

--- GB/T 14363-1993. Diesel oil consumption measurement method

1 Scope

GB/T 14363-2009 is the Chinese national standard on measure method of lubricating oil consumption for diesel engines, in the field of shipbuilding and marine structures. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 9 March 2009 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 November 2009. Classification: ICS 47.020.20, CCS U44. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in

English translation.

This standard specifies the bench when the diesel engine oil consumption (including oil consumption and oil consumption rate) measurement method. This standard applies to the determination of diesel oil consumption.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 6072.1 reciprocating internal combustion engines - Performance - Part 1. Test methods for calibration and power, fuel and lubricating oil consumption through Additional requirements for the engine (GB/T 6072.1-2008, ISO 3046-1.2002, IDT)

3 Technical requirements

3.1 Standard reference conditions Diesel oil is consumed during the measurement, the following criteria should be used to baseline conditions. Relative humidity. $r = 30\%$;

3.2 pairs of test instrumentation requirements

3.2.1 measuring measuring instruments, instrumentation, metrology department should go through the relevant verification and calibration, and shall be accompanied by effective inspection together Grid certificate.

3.2.2 Determination of the oil quality that can be printed waterproof desktop electronic scales, electronic scales and measuring the amount of oil should range adapt. Its accuracy It should be below grade III.

3.2.3 Determination of oil consumption timer can be quartz electronic watches, accuracy not less than $\pm 0.02\text{s/h}$.

3.3 Determination of the technical requirements of oil consumption

3.3.1 oil consumption should be measured after the run-in period will be specified engine manufacturer.

3.3.2 measurement of diesel oil should meet the requirements specified in the instructions and stated that the use of oil grades.

3.3.3 Engine oil change waste oil should not be included within the calibrated value of oil consumption.

3.3.4 diesel oil leakage amount shall be calculated in its oil consumption.

3.3.5 In the process of measuring the oil consumption, the diesel engine performance parameters should be adjusted.

3.3.6 oil consumption measurement accuracy of $\pm 10\%$, oil consumption rate measurement accuracy of 10.5%.

3.4 Oil consumption when measured by the power and speed

3.4.1 Determination of oil consumption conditions should be in power and speed or other provisions of the standard diesel engine calibration performed.

3.4.2 oil consumption measured according to need to do part of the power and speed when the part, but must indicate which measures speed and power.

3.4.3 If the oil consumption was measured at

3.1 does not satisfy a predetermined condition, should be GB/T 6072.1 for power correction.

3.5 Determination of the number and the interval

3.5.1 measurement interval, not less than 1000kW diesel engine power to 4h, power is less than 1000kW to 12h.

3.5.2 Determination of the number of ships once.