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

GB/T 6072.3-2008

Replacing GB/T 6072.3-2003

**Reciprocating internal combustion engines -- Performance --
Part 3: Test measurements**

往复式内燃机 性能 第3部分：试验测量

(English Translation)

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Foreword

GB/T 6072 "reciprocating internal combustion engine performance" is divided into five sections.

--- Part 1. power, fuel and lubricating oil consumptions additional requirements and test methods for universal calibration engine;

--- Part 3. Test measurements;

--- Part 4. Speed;

--- Part 5. Torsional vibrations;

--- Part 6. overspeed protection.

This part of GB/T 6072 Part 3.

This part identical with ISO 3046-3:2006 "Reciprocating internal combustion engines - Performance - Part 3. Test Measurement" (in English).

This section is equivalent translation ISO 3046-3:2006.

For ease of use, this section made the following editorial changes.

--- "This International Standard" be replaced by "of this section."

--- Deleted international standards foreword.

--- This part of ISO 3046-3:2006 and other international standards adopted, where the country has been adopted as a standard by our standards on behalf of the for relevant international standards; our country has not been adopted as a standard, still direct use of international standards.

This part is GB/T 6072.3-2003 revision, this part of the GB/T 6072.3-2003 main difference

is.

- Complements the normative references;
- Increasing the terms and definitions;
- Modify the parameter list;
- Supplementary Appendix A Calculation of Uncertainty example.

This section from the date of publication, instead of GB/T 6072.3-2003.

Appendix A of this section is an informative annex.

This part is proposed by China Machinery Industry Federation.

This part of the National Standardization Technical Committee under the jurisdiction of the internal combustion engine.

1 Scope

GB/T 6072 in addition to the basic requirements of this part of GB/T 21404-2008 prescribed, but also provides for reciprocating internal combustion engine of the main General measurement technology can parameters. So that when a predetermined value of the measured value and comparing the engine manufacturer, to achieve the required measuring quasi Accuracy. When necessary, for a particular purpose engine issue separate demands.

GB/T 6072 This section applies to land use, marine and rail traction reciprocating internal combustion engines.

This section is applicable to drive road construction machinery, industrial trucks and engines for other purposes there is no suitable standard can be used.

2 Normative references

The following documents contain provisions which, through reference to GB/T 6072 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 21404-2008 and measuring methods for determining internal combustion engine power - General requirements (ISO 15550:2002, IDT) GB/T 6072.1-2008 Reciprocating internal combustion engines - Part 1. Power, calibration of fuel and lubricating oil consumptions and test Additional requirements for engines for general method (ISO 3046-1:2002, IDT)

3 Terms and Definitions

GB/T 6072 this part of the terms and definitions GB/T 21404-2008 as given.

4 Symbol

GB/T 6072 Symbols used in this section, see GB/T 21404-2008 in Table 2, footnote meanings see GB/T 21404-2008 in Table 3.

5 Standard reference conditions

According to GB/T 21404-2008 provisions in Chapter 5.

When for marine engines, the use of treated water (fresh water) or seawater, provision charge air coolant temperature (T_{cr}) as follows.

T_{cr} considering the effect of the cooling medium source.

Note: given charge air coolant temperature at the entrance to the impact of air cooler cooling medium source of a supercharged engine. Engine designers and the buyer can choose fresh water or seawater as the cooling medium. Whether seawater or fresh water, pressurized air through the cooler after the temperature should be the same.

Air coolers used by the engine according to the application designer to specify the source of the cooling medium.

6 Standard design conditions

As by IACS (IACS) members of the supervisory body of marine engines, the use of treated water (fresh water) or seawater or raw water, GB/T 6072.3-2008/ISO 3046-3:2006