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

GB/T 6072.4-2012

Replacing GB/T 6072.4-2000

**Reciprocating internal combustion engines -- Performance --
Part 4: Speed governing**

往复式内燃机 性能 第4部分：调速

(English Translation)

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Foreword

GB/T 6072 "reciprocating internal combustion engine performance" consists of the following components.

--- 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/Part 4 T 6072's.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 6072.4-2000. Compared with GB/T 6072.4-2000, the main changes as follows.

--- Remove the normative references, an increase of references;

--- The terminology, definitions, symbols, subscript integrated into a chapter, and the content has been re-edited;

--- Add, delete or modify some of the terms and definitions.

This section uses the translation method identical with ISO 3046-4:2009 "Reciprocating internal combustion engines - Performance - Part 4. Speed" (in English).

This part made the following editorial changes.

--- Revised Table 1, footnote content;

--- Supplemented formula ID;

--- Reference switch has a corresponding relationship with the international standards of standard representation.

This part is proposed by China Machinery Industry Federation.

This part of the internal combustion engine by the National Standardization Technical Committee (SAC/TC177) centralized.

This section is drafted. Yuchai, Weichai Power Co., Ltd., Shanghai Internal Combustion Engine Research Institute, Snow Dragon Group has Limited.

1 Scope

GB/T 6072 provisions of this part of the grading system requirements and speed reciprocating internal combustion parameters, as well as the typical engine speed operation Terms and definitions. Special engine applications may impose additional requirements.

GB/T 6072 This section applies to land use, marine and railway traction reciprocating internal combustion engine, but does not include driving road construction machinery, earthmoving machines Machinery, agricultural and industrial tractors, road vehicles and aircraft engines, does not include self-tuning of the engine and requires only limit the maximum speed or the maximum amount of engine oil.

GB/T 6072 This section provides compression ignition engines (diesel) at the request of spark-ignition engines and dual-fuel engine You can make special requests.

Note 1: The performance and parameters of reciprocating internal combustion engine alternator for governor See GB/T 2820.2 and GB/T 2820.5.

Note 2: The terms and definitions of typical engine speed and overspeed protection device relating See GB/T 6072.6.

2 Terms, definitions, symbols and subscript

The following terms, definitions, symbols and subscript are applicable to this document.

NOTE: See terms and definitions related to speeding apparatus GB/T 6072.6.

2.1 Speed Control System

2.1.1

Engine governor engine speed governor in particular engine operating conditions, actual speed and the speed ratio setting right, right amount of fuel to enter the engine is corrected to adjust the actual engine speed to approach the speed setting means.

Note 1: Refer to GB/T 6809.7-2009 3.1.1.

Note 2: The governor according to the following classification.

- a) by the speed sensor and output signal amplification (see GB/T 6809.7-2009,3.3.1);
- b) Press the dynamic characteristics (transfer function) (see GB/T 6809.7-2009,3.6.2);
- c) by use of the engine-related functions (see GB/T 6809.7-2009,3.3.3).

2.1.2

Speed setting means speed-setting device Use according to category or desired adjustment, adjustable means governor set point.

NOTE: rewrite GB/T 6809.7-2009, the definition of 3.1.2.

2.1.3

Torque correction torque control in the engine speed falls below rated speed, the maximum amount of natural oil obtained from the curve of the fuel injection system made by the amendment.

NOTE: rewrite GB/T 6809.7-2009, the definition of 3.5.3.

2.2 Speed parameters

2.2.1

Calibration transfer rate declared speed droop