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NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 1149.16-2015

Internal combustion engines -- Piston rings -- Part 16: Expander/segment oil-control rings

内燃机 活塞环 第16部分：钢带组合油环

(English Translation)

Issued on: December 10, 2015 **Implemented on: July 1, 2016**

Issued by: Standardization Administration of China

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Foreword

GB/T 1149 "Piston Ring" is divided into 16 parts.

--- Part 1. General rules;

--- Part 2. Terminology;

--- Part 3. Material specifications;

--- Part 4. Quality requirements;

--- Part 5. Test methods;

--- Part 6. Cast wiper;

--- Part 7. rectangular cast iron ring;

--- Part 8. rectangular steel ring;

--- Part 9. trapezoidal cast iron ring;

--- Part 10. trapezoidal steel ring;

--- Part 11. Cast iron wedge ring;

--- Part 12. wedge-shaped steel ring;

--- Part 13. Oil ring;

--- Part 14. Spiral spring supporting oil ring;

--- Part 15. Cast iron spiral stays reed thin oil ring;

--- Part 16. strip combination oil ring.

This section GB/T 1149 Part 16.

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

This section uses the translation method identical with ISO 6627:2011 "Piston Ring strip combination oil ring." Consistency correspondence between this part of international

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documents and normative references of our files are as follows.

--- GB/T 1149.5-2008 internal combustion engine piston rings - Part 5. Test method (ISO 6621-2:2003, IDT);

--- GB/T 1149.3-2010 Piston Ring Part 3. Material specifications (ISO 6621-3:2000, IDT);

--- GB/T 1149.1-2008 internal combustion engine piston rings - Part 1. General rules (ISO 6621-4:2003, IDT);

--- GB/T 1149.14-2008 Piston Ring Part 14. Spiral spring supporting oil ring (ISO 6626. 1989, IDT).

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.

1 Scope

This section GB/T 1149 specifies the basic dimensions characteristic strip combination oil ring, does not require the complete product description (as piston rings Different manufacturers, collar structures are different, specific design details as mutually agreed by the manufacturer and the customer).

This section applies to a cylinder diameter from 40mm ~ 125mm steel group of reciprocating internal combustion engines for road vehicles and other purposes with Combined oil ring, piston ring compressor working under similar conditions may also refer to use.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

ISO 6621-2 Piston Ring Part 2. Test methods (Internalcombustionengines-Pistonrings-Part 2. Inspectionmeasuringprinciples) ISO 6621-3 combustion engine piston rings - Part 3. Material specifications (Internalcombustionengines-Pistonrings-Part 3. Materialspecifications) ISO 6621-4 Piston Ring Part 4. General rules (Internalcombustionengines-Pistonrings-Part 4. Generalspecifications) ISO 6626 Internal Combustion Engine Piston oil ring spiral spring stays (Internalcombustionengines-Pistonrings-Coil-spring-loadedoilcontrolrings)

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3 Symbols and Abbreviations

Symbols and abbreviations used in this section are shown in Table 1.

Table 1 Symbols and Abbreviations

Symbols Acronyms Description a1 blade ring radial thickness a8 collar radial thickness between the blade ring a9 collar radial thickness a11 combination ring radial thickness a14 collar boss thickness a combination of ring diameter d1 basic (basic diameter) h1 basic ring ring assembly high h24 blade ring contact surface height

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