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

GB/T 1149.14-2008

Replacing GB/T 1149.7-1994

**Internal combustion engines -- Piston rings -- Part 14:
Coil-spring-loaded oil control rings**

内燃机 活塞环 第14部分：螺旋撑簧油环

(English Translation)

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GB/T 1149.14-2008/ISO 6626.

Foreword

GB/T 1149 "Piston Ring" for the series of standards, divided into sixteen sections.

- 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 14.

This part identical with ISO 6626. 1989 "Piston Ring hold spiral spring oil ring" (in English).

This section is equivalent translation ISO 6626. 1989 (in English).

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

--- "This International Standard" by "this section";

--- Remove the foreword and introduction of international standards.

This part of ISO 6626. 1989 and other international standards adopted, where the country has been adopted as a standard by our standards instead of the corresponding International standards; our country has not been adopted as a standard, still direct use of international standards.

This part is GB/T 1149.7-1994 "Piston Ring hold spiral spring oil ring," the amendment of this section and GB/T 1149.7-1994 The main difference is.

--- GB/T 1149.7-1994 is equivalent to ISO 6626. 1989, and the Department is divided into identical with ISO 6626. 1989.

Since the implementation of this section instead of GB/T 1149.7-1994 "Piston Ring hold spiral spring oil ring." 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 piston ring model DSF-C, DSF-CNP, SSF, GSF, DSF, DSF-NG and SSF-L Coil springs support the basic dimensional characteristics of the oil ring.

Spiral spring support ring cast iron oil ring body recommended levels prescribed for the ISO 6621-3 material 10, there are special requirements can choose level Do 20 to 50 for the material.

Oil ring support surface and the corresponding spring groove design, according to the manufacturer's recommendation, use an ordinary type or chrome type.

Spiral stays reed cut oil ring to the elastic force can be varied over a wide range, the detailed description and recommended value, see Chapter 6.

Spiral spring stays high oil ring ring conventional range of 3mm ~ 8mm, 0.5mm or 1.0mm spacing by increments. Table 15 to Table 20 Regulation Given the currently used British Central High 4.75mm (3/16 ") spiral spring support oil ring size.

This section applies to a diameter less than or equal to 200mm cylinder reciprocating internal combustion engine oil ring spiral spring stays. Getting off work in similar conditions the screw compressor for stays spring ring can also refer to the use of oil.

2 Normative references

The following documents contain provisions which, through reference to GB/T 1149 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 1149.1-2008 internal combustion engine piston rings - Part 1. General rules (ISO 6621-4:2003, IDT) GB/T 1149.4-2008 Piston Ring Part 4. Quality requirements (ISO 6621-5:2005, IDT)

2000 The first part of the internal combustion engine piston ring 3.. ISO 6621-3 Materials Specification

3.1.1 General Characteristics

Note: Dimensions and elastin in Table 9 and Table 15.

3.1.2 Tag example

(MC11) manufactured select closed the gap 0.2mm (S020), the oil scraper edge chrome layer has a minimum thickness of 0.15mm (CR3), the entire surface of cast iron phosphorus Pitch helical support spring (CSE), the tangential contact with the elastic force F_t at moderate pressure than the basic level (PNM), with a factory mark (MM), subject to this Part Sectional Requirements chrome spiral bevel profile grinding anisotropy stays reed oil ring (DSF-C) marked.

Piston GB/T 1149.14 DSF-C-125 x 5-MC11/S020 CR3POWKWFCSEPNM MM

3.2.1 General Characteristics

Note: Dimensions and elastin see tables 10 and 16.

GB/T 1149.14-2008/ISO 6626. 1989