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

GB/T 8243.11-2007

**Methods of test for full-flow lubricating oil filters for internal
combustion engines -- Part 11: Self-cleaning filters**
(English Translation)

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Foreword

GB/T 8243 "full-flow oil filters for internal combustion engines Test Method" consists of the following components.

- Part 1. Differential pressure - flow characteristics;
- Part 2. Element by-pass valve characteristics;
- Part 3. Resistance to high differential pressure and high temperature properties;
- Part 4. Original filtration efficiency, life and cumulative efficiency (gravimetric method);
- Part 5. Cold start simulation and hydraulic pulse durability test;
- Part 6. Static burst pressure test;
- Part 7. Vibration fatigue test;
- Part 9. Inlet and outlet valve tests;
- Part 10. life and cumulative efficiency of oil when it contains water;

--- Part 11. self-cleaning filter;

--- Part 12. Determination of particle counting using filtration efficiency and dust capacity.

This part of GB/T 8243 Part 11.

This part identical with ISO 4548-11:1997 "Methods of test for internal combustion engine oil filter full flow 11. self-cleaning filtration Device "(in English).

This section is equivalent translation ISO 4548-11:1997.

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

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

--- Remove the foreword to international standards;

--- Of ISO 4548-11:1997 and other international standards referenced in our country has been adopted as a standard by our standards instead of the corresponding International standards have not been adopted direct reference to international standards for our standards.

This section of Appendix A normative appendix.

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.

Introduction

GB/T 8243 standard specifies testing procedures for measuring internal combustion engine full-flow oil filter performance. The standards set by the individual section Compiled from each part relates to a particular operating characteristics.

The entire test can provide the necessary information for the evaluation of the filter characteristic, but if the user and vendor sides agree, to be conducted separately test.

GB/T 8243.11-2007/ISO 4548-11:1997 Full-flow oil filters for internal combustion engines Test Method Part 11. self-cleaning filter

1 Scope

GB/T 8243 provisions of this part of the test method for assessing the internal combustion engine oil filter self-cleaning properties. This section applies to continue or intermittent self-purification filter.

By periodically reverse the oil flow through the filter can remove particulate filters in the filter under. However, this also makes filtration media produced machine Mechanical stresses. Specified in this test can be used to test the filter in the filtration performance simulation

conditions, as well as for determining oil pressure, oil Temperature, when the ability to change and oil filter without damaging the water flow direction occur.

Equipment and procedures specified in this filter is recommended for nominal flow less than 1600L/min of.

2 Normative references

The following documents contain provisions which, through GB/T reference in this 8243 constitute provisions of this part. For dated references, all subsequent amendments (excluding corrections) or revisions do not apply to this section, however, encourage an agreement under this section Parties to study the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 786.1-1993 hydropneumatic graphic symbols GB/T 8243.1-2003 full flow oil filters for internal combustion engines - Test methods - Part 1. pressure - flow characteristics (ISO 4548-1:1997, IDT) GB/T 14041.1-2007 determine the hydraulic filter and verify the structural integrity of the initial bubble point (ISO 2942:2004, IDT) GB/T 17484-1998 Hydraulic fluid sampling container cleaning methods to identify and control (idt ISO 3722. 1976) ISO 4405:1991 Hydraulic fluid contamination by gravimetric determination of particulate contamination Defined filters and parts. ISO 11841-1:2000 Road vehicles and internal combustion engines cleaner Vocabulary - Part 1 ISO 11841-2. define the characteristics of filters and their components 2000 Road vehicles and internal combustion engines cleaner Vocabulary - Part 2 ISO 12103-1:1997 Road vehicles - Tests for the assessment filter ash - Part 1. test for aluminum gray

3 Terms and Definitions

GB/T 8243 uses this part of ISO 11841-1, ISO 11841-2 and the following terms and definitions prescribed.

Working conditions regardless of the degree of clogging of the filter media and filtration, the filter can continue to carry out the filter purification treatment.

Only when a job filter parameters (time, pressure drop) reaches a predetermined value of the filter cartridge purification treatment.

Units of mass impurities on the filter in the name of traffic, before it when the pressure has not reached a predetermined value, such as the beginning of self-purification, can filtered out.

The ability to filter oil filter to filter particles contained in the liquid by.

GB/T 8243.11-2007/ISO 4548-11:1997