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Methods of test for full-flow lubricating oil filters for internal combustion engines —

Part 14: Cold start simulation and hydraulic pulse durability for composite filter housings

Méthodes d'essai des filtres à huile de lubrification à passage intégral pour moteurs à combustion interne —

Partie 14: Essais de simulation de démarrage à froid et de résistance aux impulsions hydrauliques pour les corps de filtre pressurisés à base de matériaux composites

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Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The committee responsible for this document is ISO/TC 70, *Internal combustion engines*, Subcommittee SC 7, *Tests for lubricating oil filters*.

ISO 4548 consists of the following parts, under the general title *Methods of test for full-flow lubricating oil filters for internal combustion engines*:

— *Part 1: Differential pressure/flow characteristics*

— *Part 2: Element by-pass valve characteristics*

— *Part 3: Resistance to high differential pressure and to elevated temperature*

— *Part 4: Initial particle retention efficiency, life and cumulative efficiency (gravimetric method)*

— *Part 5: Test for cold start simulation and hydraulic pulse durability*

— *Part 6: Static burst pressure test*

— *Part 7: Vibration fatigue test*

— *Part 9: Inlet and outlet anti-drain valve tests*

— *Part 12: Filtration efficiency using particle counting, and contaminant retention capacity*

— *Part 13: Static burst pressure test for composite filter housings*

— *Part 14: Cold start simulation and hydraulic pulse durability for composite filter housings*

— *Part 15: Vibration fatigue test for composite filter housings*

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Full document details: Methods of test for full-flow lubricating oil filters for internal combustion engines — Part 14: Cold start simulation and hydraulic...

Introduction

This part of ISO 4548 establishes standard test procedures for measuring the performance of full-flow lubricating oil filter modules made of composite materials for internal combustion engines in tests of cold start simulation and hydraulic pulse durability.

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