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GB/T 32838-2016

**Nondestructive testing method
of laser shearography for vehicle tyre**

汽车轮胎激光散斑无损检测方法

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Foreword

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard was proposed by the China Petroleum and Chemical Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee of Tyre and Rim Standardization (SAC/TC 19).

Drafting organizations of this Standard: Guangzhou South China Tire & Rubber Co., Ltd., Shandong Linglong Tire Co., Ltd., Guangzhou SCUT Bestry Technology Co., Ltd., Guizhou Tire Co., Ltd., Zhongce Rubber Group Co., Ltd., Double Star Group Co., Ltd., Beijing Research and Design Institute of Rubber Industry, Sailun Jinyu Group Co., Ltd., Triangle Tyre Co., Ltd., Aeolus Tyre Co., Ltd., Guangzhou Fengli Tire & Rubber Tire Co., Ltd., Qingdao Sentury Tire Co., Ltd., Bridgestone (China) Investment Co., Ltd., Dalian Goodyear Tire Co., Ltd.

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Nondestructive testing method of laser shearography for vehicle tyre

1 Scope

This Standard specifies the terms and definitions, testing principle, testing equipment, testing conditions, testing steps, testing results analysis and judgment method of the nondestructive testing of laser shearography for vehicle tyre.

This Standard applies to the nondestructive testing of laser shearography for car and truck tyre.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 6326 Tyre terms and definitions

3 Terms and definitions

The following terms and definitions AND the terms defined in GB/T 6326 apply to this document.

3.1 Laser shearography

When the tyre is irradiated by a laser beam under closed vacuum, the surface-reflected laser forms a random interference image (random-distributed spots in the bright and dark areas).

3.2 Nondestructive testing

The testing method without damaging the structure.

3.3 Phase image

It refers to the phase difference diagram, which is obtained through making a calculation of the image formed by the laser shearography interference before-after loading.

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