

ICS 43.040.50

T 22



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

中华人民共和国国家标准

GB/T 5909-2009

Replace GB/T 5909-1995

**Performance requirements and test method of
commercial vehicles wheels**

商用车辆车轮性能要求和试验方法

(ISO 3894: 2005, Road vehicles-wheels/rims for commercial vehicles-Test
methods, NEQ)

Issued on October 30, 2009

Implemented on July 1, 2010

Issued by General Administration of Quality Supervision, Inspection
and Quarantine of the People's Republic of China
Standardization Administration of the People's Republic of
China

Contents

Foreword	1
1 Scope	2
2 Test sample	2
3 Dynamic bending fatigue tests of disc wheels	2
4 Dynamic radial fatigue tests of disc wheels and wheels with detachable rims ..	6
5 Dynamic bending fatigue tests of wheels with detachable rims	9

Foreword

The Standard corresponds to ISO3894: 2005 *Road vehicles Wheels/rims for commercial vehicles Test methods* (English version), and the degree of consistency with ISO3894: 2005 is to be non-equivalent.

The Standard replaces GB/T5909-1995 *Performance Requirements and Test Methods of Truck Wheels*.

Compared with GB/T5909-1995, the Standard has the main changes as follows:

- Modified the name of the Standard;
- Added the foreword of the Standard;
- Added test methods and performance requirement of light alloy commercial vehicles wheels (3.4, 4.4 of this Version);
- Added test methods and performance requirement of wheels of detachable rims (Chapter 5 of this version);
- Modified part of performance requirement indicators (4.3, 5.3 in Version 1995, 3.4, 4.4 of this Version).

The Standard is proposed by National Development and Reform Commission.

The Standard is under the jurisdiction of National Automobile Standardization Technical Committee.

The Standard is drafted by: Shandong Jining Wheels Plant.

Main drafters of the Standard are: Zhou Ming, Li Yurong.

The issuances of previous versions of the standards replaced by the Standard are as follows:

——GB5909—1986, GB/T5909—1995

Performance requirements and test methods of commercial vehicles wheels

1 Scope

The Standard specifies test methods and performance requirements of commercial vehicles wheels.

The Standard applies to disc wheels, wire wheels and wheels with dismountable rims for commercial vehicles.

2 Test sample

The wheel for test shall be a new representative wheel made after the complete process and available for installation of wheel. Each wheel can only be used for single test.

3 Dynamic bending fatigue tests of disc wheels

3.1 Test equipment

The testing machine shall be with a driven rotation device, so that the wheel can rotate at a fixed bending moment, or stay stationary while bearing a rotating bending moment. See Figure 1.

3.2 Test procedures

3.2.1 Preparation work

Clamp the wheel and the rim firmly to the test fixture according to Figure 1a) or Figure 1b). The junction surface of testing machine shall have the same installation dimension and characteristic with connectors commonly used in vehicles. The junction surface of the test bench and the installation surface of the wheel shall be free of scratches and wears, and excessive paint knots, dusts or foreign matters shall be removed.

In no load, the eccentric amount of the final clamping position of the wheels shall not exceed 0.30mm.

The loading arm and connector are connected reliably to the installation surface of the wheel with non-lubricated studs or bolts and nuts, and the installation situation shall be equivalent to the operating conditions of vehicles in actual use. At the start of the test, install and fasten the wheels based on the torque specified by the manufacturer of vehicle

完整版本请在线下单

或咨询：

TEL: 400-678-1309

QQ: 19315219

Email: info@lancarver.com

<http://www.lancarver.com>

线下付款方式：

1. 对公账户：

单位名称：北京文心雕语翻译有限公司

开户行：中国工商银行北京清河镇支行

账 号：0200 1486 0900 0006 131

2. 支付宝账户：info@lancarver.com

注：付款成功后，请预留电邮，完整版本将在一个工作日内通过电子 PDF 或 Word 形式发送至您的预留邮箱，如需索取发票，下单成功后的三个工作日内安排开具并寄出，预祝合作愉快！



银联特约商户