

ICS 43.020

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National Standard of the People's Republic of China

GB/T 14172-2009

Replace GB/T 14172-1993

汽车静侧翻稳定性台架试验方法

Static Roll Stability Test Method for Motor Vehicles

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Foreword

This Standard will replace GB/T 14172-1993 *Static roll stability test method for motor vehicles*.

Comparison with GB/T 14172-1993, main changes of this Standard are as follows:

- Added “Trailer train can be implemented by reference”;
- Modified “Terms and definitions”;
- Modified and adjusted relevant information on measuring apparatus;
- Added the requirements for simulation load of automobile;
- Modified the parking requirements of automobile on test-bed.

Annex A of this Standard is informative.

This Standard is proposed by National Development and Reform Committee (NDRC).

This Standard is under jurisdiction of National Technical Committee on Road Vehicles of Standardization Administration of China.

Chief draft unit of this Standard: National Automobile Quality Supervision Test Center (Xiangyang).

Chief drafters of this Standard: Zhu Xin, Wang Zuguo, Chen Jiabin and Zhan Yongmao.

History editions replaced by this Standard are as follows:

- GB/T 14172-1993.

Static Roll Stability Test Method for Motor Vehicles

1 Scope

This Standard specifies the static roll stability test method for motor vehicles.

This Standard is applicable to automobile. Trailer train can be implemented by reference.

2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 1184 Geometrical tolerancing-Geometrical tolerances for features without individual tolerance indications (GB/T 1184-1996, eqv ISO 2768-2: 1989)

3 Terms and Definitions

For the purpose of this Standard, the following terms and definitions apply.

3.1

static roll stability

The inherit roll resistance ability of motor vehicles under the side force in static conditions.

3.2

roll angle

The angel between the bearing surface and horizontal surface of the wheel of motor vehicle when the motor vehicle rolls to one side with the roll test platform.

3.3

max stable roll angle

The side roll angle formed by the bearing surface of the vehicle wheel on one side when the normal counter force is changed to zero, while the motor vehicle rolls to one side with the roll test bed.

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