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Road vehicles — Wheels/rims for commercial vehicles — Test methods

*Véhicules routiers — Roues/jantes pour véhicules utilitaires —
Méthodes d'essai*



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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 33, *Vehicle dynamics, chassis components and driving automation systems testing*.

This fifth edition cancels and replaces the fourth edition (ISO 3894:2015), which has been technically revised.

The main changes are as follows:

- correction of required cycles for radial testing of aluminium wheels;
- editorial changes.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

This document was developed in response to requests to establish uniform test methods to evaluate certain fatigue strength characteristics of wheels used on commercial vehicles. Although this document is the International Standard for wheel fatigue testing due to the ubiquity of testing resources, there are also other regionally acceptable testing standards for fatigue strength characteristics, such as biaxial testing. Some examples of other regional entry level testing requirements include Japan's JIS D4103, China's GBT 5909, India's IS 9438, US' SAE J267, Brazil INMETRO's NBR 6751, and the European standard EUWA ES3.11.

The standardization of test methods allows manufacturers of vehicles and/or wheels to evaluate their products in a uniform manner. By using these methods, wheels from different parts of the world can be compared and evaluated for use.