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First edition
1993-06-01

Truck and bus tyres — Verifying tyre capabilities — Laboratory test methods

Pneumatiques pour camions et autobus — Vérification de l'aptitude des pneumatiques — Méthodes d'essai en laboratoire



Reference number
ISO 10454:1993(E)

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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10454 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Sub-Committee SC 4, *Truck and bus tyres and rims*.

Annexes A and B of this International Standard are for information only.

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International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland

Printed in Switzerland

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Truck and bus tyres — Verifying tyre capabilities — Laboratory test methods

1 Scope

This International Standard specifies test methods for verifying the capabilities of truck and bus tyres. Of the test methods presented, only some may be required depending on the type of tyre to be tested.

The tests are carried out in a laboratory under controlled conditions.

It includes a strength test for assessing the capability of the tyre structure, with respect to braking energy, in the tread area.

A second test, the endurance test, assesses the resistance of the tyre with respect to service at full load and moderate speed over long distances.

The test methods presented in this International Standard are not intended for gradation of tyre performance or quality levels.

This International Standard applies to all truck and bus tyres.

2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 4223-1:1989, *Definitions of some terms used in the tyre industry — Part 1: Pneumatic tyres.*

3 Definitions

For the purposes of this International Standard, the definitions given in ISO 4223-1 and the following definitions apply.

3.1 bead separation: Breakdown of bond between components in the bead area.

3.2 belt separation: Parting of rubber compound between belt layers or between belts and plies.