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Tyres and rims for construction machines

Pneumatiques et jantes pour engins de construction



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Foreword

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The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 13442 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*.

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Tyres and rims for construction machines

1 Scope

This International Standard sets the designation, dimensions, load ratings and reference speeds for tyres and rims fitted to construction machines (backhoe loaders, small dumpers, loaders, excavators, etc.) operating on building sites under loading and transport conditions.

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.

ISO 3877-1, *Tyres, valves, and tubes — List of equivalent terms — Part 1: Tyres*

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

ISO 4250-1:1996, *Earth-mover tyres and rims — Part 1: Tyre designation and dimensions*

ISO 4250-3:1997, *Earth-mover tyres and rims — Part 3: Rims*

ISO 4251-3:1994, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 3: Rims*

ISO 4251-4, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 4: Tyre classification and nomenclature*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

haulage service

⟨transport⟩ cycle where machine self-loads or receives a load from loading equipment, transports it elsewhere and returns unloaded

NOTE Transportation occurs over unimproved surfaces at medium speeds and short distances, up to 4 km one way.

3.2 Slow speed service (loading)

3.2.1

loading cycle

cycle where the machine is used to pick up material and move it a short distance away

NOTE Tyre loads fluctuate depending on the conditions involved when the equipment picks up the load. Transportation speeds are low, up to 10 km/h and distances are short, usually less than 150 m one way.