Australian Standard®

Earth-moving machinery—Off-the-road wheels, rims and tyres—Maintenance and repair

Part 1: Wheel assemblies and rim assemblies



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The following are represented on Committee ME-063:

- AUSTROADS
- Australian Industry Group
- Construction and Mining Equipment Industry Group
- Department of Defence
- Department of Natural Resources and Mines, Qld
- Department of Primary Industries and Fisheries, Qld
- Department of Primary Industries, Mine Safety, NSW
- Safety Institute of Australia
- WorkCover New South Wales

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Part 1: Wheel assemblies and rim assemblies

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PREFACE

This Standard was prepared by the Standards Australia Committee ME-063, Earthmoving Equipment, at the request of users of earthmoving equipment, particularly those involved in major mining operations, and is supported by the inspectorates of Queensland, New South Wales and Western Australia. These bodies have expressed their concern that wheels, rims and tyres for earthmoving equipment are being subjected to ever-increasing loads and forces. The origin of the forces is the larger, heavier trucks and payloads being introduced and the higher speeds these vehicles can achieve.

Where a wheel or a rim assembly has disintegrated, pieces of the rim or wheel assembly have been thrown for considerable distances. Fatalities and serious injuries have also occurred when correct procedures have not been followed. The release of large quantities of energy in an uncontrolled manner poses a risk to persons nearby and in order that this element of risk be minimized, some controls over the repair, maintenance and inspection of wheels and rim assemblies are considered necessary.

This Standard supersedes AS 4457—1997, Earth-moving machinery—Off-highway rims and wheels—Maintenance and repair, and includes revised information relating to tyre inflation pressure and takes into account individual or group site requirements.

The AS 4457 series of Standards comprises two parts as follows:

Part 1: Wheel assemblies and rim assemblies (this Standard)

Part 2: Tyres

The term 'normative' has been used in this Standard to define the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

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