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SOUTH AFRICAN NATIONAL STANDARD

Off-the-road (OTR) tyres — Earth-moving tyres for earth-moving machinery — Repairs and retreading

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Table of changes

Change No.	Date	Scope

Foreword

This South African standard was approved by National Committee SABS/TC 31, *Wheels, tyres, rim dimensions and repairs*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in November 2009.

Introduction

The use of earth-moving tyres that have been badly repaired, retreaded, maintained or that have no service record (i.e. where the correct procedures have not been followed) poses safety risks to persons and might damage machinery and even the environment. The control of inspections, repairs, retreading and maintenance is necessary not only to ensure a high standard but also to establish a safe and sound environment. Site management is essential to ensure that all hazards are identified and risk controls are put in place. This standard was designed to assist the users in the correct procedures in order to minimize safety risks.

**Reaffirmed and reprinted in February 2016.
This document will be reviewed every five years
and be reaffirmed, amended, revised or withdrawn.**

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Off-the-road (OTR) tyres — Earth-moving tyres for earth-moving machinery — Repairs and retreading

1 Scope

This standard specifies requirements for the identification, inspection, repair, retreading and maintenance of off-the-road (OTR) pneumatic tyres for OTR machinery.

2 Normative references

The following referenced document is 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. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

SANS 20108/ECE R108, *Uniform provisions concerning the approval for the production of retreaded pneumatic tyres for motor vehicles and their trailers.*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in SANS 20108 and the following apply.

3.1

bead

part of a tyre that is manufactured to secure and seat the tyre against the rim

NOTE A number of high-tensile steel wires fashioned in a hoop shape are encased in the tyre casing or structure. This may involve one bead core (radial-ply) or multiple bead cores on each side (bias-ply) (see figure 1).

3.2

bead area

area of the tyre below the rim line

NOTE See figure 1.

3.3

bias-ply tyre

pneumatic tyre in which the ply cords in the tyre casings are laid at alternate angles that are substantially less than 90° to the centre line of the tread area

NOTE See figure 1.