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Edition 1.1

SOUTH AFRICAN NATIONAL STANDARD

**Compression-ignition engine systems
and machines powered by such engine
systems, for use in mines and plants with
explosive gas atmospheres or explosive dust
atmospheres or both**

**Part 3-3: Hazardous locations on surface —
Machines**

WARNING

**This document references other
documents normatively.**

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| Table of changes | | |
|------------------|------|--|
| Change No. | Date | Scope |
| Amdt 1 | 2017 | Amended to delete the note on verification and methods of test, to update the requirements for production units, and to delete the bibliography. |

Foreword

This South African standard was prepared by National Committee SABS/TC 065, *Explosion prevention*, in accordance with procedures of the SABS, in compliance with annex 3 of the WTO/TBT agreement.

This document was approved for publication in June 2017.

This document supersedes SANS 868-3-3:2012 (edition 1).

A vertical line in the margin shows where the text has been technically modified by amendment No. 1.

Compliance with this document cannot confer immunity from legal obligations.

Reference is made in the note to 1.1 and 4.1 to the "relevant national legislation". In South Africa this means either the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) or the Mine Health and Safety Act, 1996 (Act No. 29 of 1996).

SANS 868 consists of the following parts under the general title, *Compression-ignition engine systems and machines powered by such engine systems, for use in mines and plants with explosive gas atmospheres or explosive dust atmospheres or both*:

Part 1-1: Hazardous locations in underground mines – Basic explosion protected engines.

Part 1-2: Hazardous locations in underground mines – Explosion protected engine systems.

Part 1-3: Hazardous locations in underground mines – Machines.

Part 3-1: Hazardous locations on surface – Basic explosion-protected engines.

Part 3-2: Hazardous locations on surface – Explosion-protected engine systems.

Part 3-3: Hazardous locations on surface – Machines.

Part 4: Non-hazardous locations in underground coal mines.

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