

Australian/New Zealand Standard™

**Diesel engine systems for underground
coal mines**

Part 3: Maintenance

AS/NZS 3584.3:2005

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME-018, Mining Equipment. It was approved on behalf of the Council of Standards Australia on 18 November 2004 and on behalf of the Council of Standards New Zealand on 17 December 2004.

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The following are represented on Committee ME-018:

Australasian Institute of Mining and Metallurgy
Australian Chamber of Commerce and Industry
Australian Coal Association
Bureau of Steel Manufacturers of Australia
Chamber of Minerals and Energy of Western Australia
Department of Infrastructure, Energy and Resources, Tasmania
Department of Labour New Zealand
Department of Mineral Resources New South Wales
Department of Minerals and Energy, W.A.
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Institution of Mining Engineers, Australia
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-018, Mining Equipment.

The objective of this Standard is to provide guidance for ensuring diesel engine systems used underground in coal mines are maintained in an 'as approved and certified' condition and comply with safety requirements.

This Standard is part of a series on diesel engine systems for underground coal mines, as follows:

AS/NZS

3584 Diesel engine systems for underground coal mines

3584.1 Part 1: Fire protected

3584.2 Part 2: Explosion protected

3584.3 Part 3: Maintenance (this Standard)

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for examining, servicing, maintaining, overhauling, modifying and testing diesel engine systems that comply with AS/NZS 3584.1 and AS/NZS 3584.2, for use in underground coal mines.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1915	Electrical equipment for explosive atmospheres—Battery-operated vehicles
2290	Electrical equipment for coal mines—Maintenance and overhaul
2290.1	Part 1: Maintenance of electrical equipment for hazardous areas
2290.3	Part 3: Maintenance of gas detecting and monitoring equipment
2380	Electrical equipment for explosive atmospheres—Explosion-protection techniques
2380.7	Part 7: Intrinsic safety i
2381	Electrical equipment for explosive atmospheres—Selection, installation and maintenance
2381.2	Part 2: Flameproof enclosure d
4242	Earth-moving machinery and ancillary equipment for use in mines—Electrical wiring systems at extra-low voltage

AS/NZS

3584	Diesel engine systems for underground coal mines
3584.1	Part 1: Fire protected—Heavy duty
3584.2	Part 2: Explosion protected
3800	Electrical equipment for explosive atmospheres—Overhaul and repair

4360

Risk management

ISO 9000

Quality management systems—Fundamentals and vocabulary

SA

HB18 Guidelines for third-party certification and accreditation

HB18.28 Guide 28—General rules for a model third-party certification system for products