

AS 3584.1:2021



# Diesel engine systems for underground coal mines

Part 1: Fire protected — Heavy duty



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AS 3584.1:2021

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- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Chamber of Minerals and Energy of Western Australia
- Construction and Mining Equipment Industry Group
- Department of Mines, Industry Regulation and Safety, WA
- Department of Regional NSW
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- Engineers Australia
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- WorkSafe New Zealand

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# **Diesel engine systems for underground coal mines**

## **Part 1: Fire protected — Heavy duty**

Originated as AS/NZS 3584.1:2005.  
Previous edition 2008.  
Revised and redesignated as AS 3584.1:2021.

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## Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-018, Mining Equipment, to supersede AS/NZS 3584.1:2008.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this document as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this document is to promote the safety of fire-protected diesel engine systems that are used underground in coal mines.

A list of all parts in this series can be found in the Standards Australia online catalogue.

This document introduces the requirements for a fire ignition hazard assessment and functional safety assessment to be performed on the fire-protected diesel engine system. Emissions requirements for fire-protected diesel engine systems have been removed from this document and are included in AS 3584.4.

The major changes in this document are as follows:

- (a) [Section 3](#) Design and construction of this document now includes all performance requirements.
- (b) The test appendices now include all test requirements.
- (c) Rated torque speed has been replaced with intermediate speed.
- (d) References to product certification schemes have been removed.

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

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