Australian/New Zealand Standard™

Diesel engine systems for underground coal mines

Part 1: Fire protected—Heavy duty





AS/NZS 3584.1:2008

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee ME-018, Underground Coal Diesel Engine Systems. It was approved on behalf of the Council of Standards Australia on 19 April 2007 and on behalf of the Council of Standards New Zealand on 27 April 2007. This Standard was published on 30 June 2008.

The following are represented on Committee ME-018:

Australian Institute of Mining and Metallurgy
Australian Chamber of Commerce and Industry
Australian Industry Group
Department of Consumer and Employment Protection (WA)
Department of Labour New Zealand
Department of Mines and Energy (Qld)
Engineers Australia
NSW Department of Primary Industries, Mineral Resources

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR 07117.

AS/NZS 3584.1:2008

Australian/New Zealand Standard™

Diesel engine systems for underground coal mines

Part 1: Fire protected—Heavy duty

First published as AS/NZS 3584.1:2005. Second edition 2008.

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee ME-018, Mining Equipment, to supersede AS/NZS 3584.1:2005.

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

This Standard is one of the following series of the standards:

AS/NZS

2504	D 1	•					•
250/	1110001	anaina	gratama	tor unc	lararannd	$\alpha \alpha \alpha I$	minac
3584	1715551	CHAILE	SVSIEILIS	1 () 1 1 1 1	lerground	COAL	111111111111111111111111111111111111111

- 3584.1 Part 1: Fire protected (this Standard)
- 3584.2 Part 2: Explosion protected
- 3584.3 Part 3: Maintenance

This edition allows for the implementation of new technology in diesel engine systems, including the use of dry exhaust systems, limiting the emission of diesel aerosol particulates and generally reducing the emission of pollutants. This edition facilitates the use of electronically managed diesel engine systems. Its emphasis is to facilitate the implementation of new technology resulting in the increased operational safety of diesel engine systems.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of 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.

CONTENTS

	I	Page
CECTIC	N. 1. CCORE AND CENERAL	
	N 1 SCOPE AND GENERAL	_
1.1	SCOPE	
1.2	APPLICATION	
1.3	REFERENCED DOCUMENTS	
1.4	DEFINITIONS	7
SECTIO	N 2 DESIGN AND CONSTRUCTION	
2.1	DESIGNATED SAFE AREA BARRIER	10
2.2	METHANE DETECTION	
2.3	FIRE SUPPRESSION	
2.4	ENGINE TYPES	
2.5	CONDITION MONITORING	
2.6	SURFACE TEMPERATURE	
2.7	ABNORMAL COMBUSTION	
2.8	MATERIALS	
2.9	VEE-PULLEYS	
2.10	ENGINE BREATHER	
2.11	STARTING AIDS	
2.12	FUEL SYSTEMS	
2.13	AIR INLET SYSTEMS	
2.14	AIR COMPRESSORS	
2.15	C C C LL C C C L C L LL C C C C C C C C	
	ENGINE SHUTDOWN SYSTEMS	
2.17	EXHAUST	15
2.18	ELECTRICAL SYSTEMS	19
SECTIO	N 3 MARKING	
3.1	COMPLIANCE PLATE	20
3.2	WARNING LABELS	21
SECTIO	N 4 TESTING	
4.1	TYPE TESTING	
4.2	MODIFIED COMPONENTS	
4.3	INSTALLED TESTS BY THE DIESEL ENGINE SYSTEM MANUFACTURER.	23
4.4	ROUTINE COMMISSIONING TESTS BY THE DIESEL ENGINE SYSTEM	
	MANUFACTURER	
4.5	USE OF LOW EMISSION FUEL	24
4.6	MANAGEMENT SYSTEM	24
SECTIO	N 5 DOCUMENTATION	
5.1	DOCUMENTATION TO BE SUPPLIED	
5.2	GENERAL ARRANGEMENT DRAWINGS	26
APPEN	DICES	
	DICES MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD	20
A B	DETERMINING LOAD SPEED CHARACTERISTICS	
В С	DETERMINING CONSTITUENTS OF EXHAUST GAS	
D D	DETERMINING CONSTITUENTS OF EXHAUST GAS DETERMINING GASEOUS EMISSION LEVELS	
D	DETERMINING GASEGUS EMISSION LEVELS	4U



The is a new provider i arenade and chare publication at the limit below	This is a free preview.	Purchase the	entire publication	at the link below:
--	-------------------------	--------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation