



CSA M424.0:22
(ISO 19296:2018, MOD)
National Standard of Canada



CSA M424.0:22
Underground mining mobile equipment — General requirements
(ISO 19296:2018, MOD)



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CSA M424.0:22
March 2022

Title: *Underground mining mobile equipment — General requirements*

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Prepared by
International Organization for Standardization



Reviewed by



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Published in March 2022 by CSA Group
A not-for-profit private sector organization
178 Rexdale Boulevard, Toronto, Ontario, Canada M9W 1R3

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ICS 53.100; 13.110; 73.100.99
ISBN 978-1-4883-4118-2

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CSA Preface

This is the first edition of CSA M424.0, *Underground mining mobile equipment — General requirements*, which is an adoption, with Canadian deviations, of ISO (International Organization for Standardization) Standard 19296 (first edition, 2018-11), *Mining — Mobile machines working underground — Machine safety*.

For brevity, this Standard will be referred to as “CSA M424.0” throughout.

This Standard is part of the CSA M424 series of Standards on underground mining mobile equipment. It is intended to be used in conjunction with additional CSA M424 Standards, as applicable.

CSA group acknowledges that the development of this Standard was made possible, in part, by the financial assistance of CanmetMINING, Lands and Minerals Sector, a department of Natural Resources Canada.

This Standard was developed by CSA Group with funding support provided by the Canadian Association of Administrators of Labour Law — Occupational Safety and Health (CAALL-OSH), including provincial and territorial governments, as well as the Government of Canada. CSA Group is solely responsible for the content of this Standard, and CSA Group and the funding bodies disclaim any liability in connection with the use of the information contained herein.

This Standard was reviewed for Canadian adoption by the CSA Subcommittee on Underground Mining Mobile Equipment — General Requirements, under the jurisdiction of the CSA Technical Committee on Underground Mining Mobile Equipment and the CSA Strategic Steering Committee on Occupational Health and Safety, and has been formally approved by the Technical Committee.

This Standard has been developed in compliance with Standards Council of Canada requirements for National Standards of Canada. It has been published as a National Standard of Canada by CSA Group.

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- a) *Standard designation (number);*
- b) *relevant clause, table, and/or figure number;*
- c) *wording of the proposed change; and*
- d) *rationale for the change.*

Canadian deviations

The following deviations are intended to align with local occupational health and safety practices and to meet the requirements of Canadian workplace regulators.

[Replace the title of this Standard with the following]

Underground mining mobile equipment — General requirements

1 Scope

[Replace this Clause with the following]

This Standard applies to new or unused wheeled or tyred, self-propelled, non-rail-bound, mobile machines for use in underground mines.

This Standard describes the technical aspects and procedures necessary for design, performance, and testing of core design and safety requirements.

This Standard covers general requirements only. Requirements contained in a variety of underground mining mobile equipment are grouped in this Standard. The remaining Standards in the series state requirements for braking and specific types of power trains. See Annex DA for additional information on how to apply the CSA M424 series of Standards.

For utility / service / support machines, this Standard only includes provisions to address the risks associated with the mobility (movement of the whole machine from one location to another). Risks for the additional functions (e.g., scaling, concrete spraying, bolting, charging drilling attachment) are not covered in this Standard.

2 Normative references

[Replace the entry for ISO 6750:2005 with the following]

ISO 6750-1:2019, *Earth-moving machinery — Operator's manual — Part 1: Contents and format*

[Add the following]

In this Standard, any reference to International Standards shall be replaced by the relevant National Standard of Canada.

Where reference is made to CSA Group publications, such reference shall be considered to refer to the latest edition and all amendments published to that edition. This Standard refers to the following publications, and the years shown indicate the latest editions available at the time of publication:

CSA Group

B51:19

Boiler, Pressure Vessel, and Pressure Piping Code