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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 20418-2011

Replacing GB/T 20418-2006

**Earth-moving machinery -- Lighting, signalling and marking
lights, and reflex-reflector devices**

土方机械 照明、信号和标志灯以及反射器

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard replaces GB/T 20418-2006 "moving machinery lighting, signal and marker lights and reflectors." This standard GB/T 20418-2006 compared, in addition to editorial changes outside the main technical changes are as follows.

--- Increased introduction;

--- Removed some normative references;

--- Modify some of the terms and definitions (see 3.1.6,3.1.8,3.1.9 and 3.1 10. The 2006 edition of 3.6,3.8,3.9 and 3.10);

--- Added "symbol" (see 3.2);

--- Modify some of the basic requirements (see 4.6.1 and 462, 2006 edition of 4.1.6.1 and 4.1.6.2.);

--- Altered the content of Appendix E.

This standard uses redrafted Law Amendment uses ISO 12509:2004 "moving machinery lighting, signal and marker lights and reflectors." Technical differences exist compared to 2004, the main technical differences and their reasons are as follows. This standard and ISO 12509.

--- For ease of use, in Appendix E of the table and increase the number of tables referenced table;

--- 3.2 in the definition of K added "(or the rear of the machine)" to make the definition more accurate;

--- E.5.1.6, the type of rear turn signal lamps 1a to type 2a, error correction ISO ;

--- Figure E.4, Figure E.11, Figure E.12, Figure E.16, E.19 in FIG, beta1, beta2 label position reversed, error correction ISO ;

--- Figure E.5a), modify the size of the B-line label position, error correction ISO ;

--- Figure E.5 description b bar, "1/3L" to "1/3L1", error correction ISO ;

--- E.5.3.2 the turn signal lamp type 2 to type 1 error correction ISO ;

--- E.5.4.1, the front side turn signal lamp of the type 3b to type 3, error correction ISO ;

--- Table E.10 in, "K" to "K1", "see E.5.4" to "see E.5.1.7.2 layout C", error correction ISO ;

--- E.7.1.3c), and "should not be mixed with the rear position lamp" to "may be combined with the rear position lamp", in line with China's national conditions, it may be ISO error;

--- Figure E.14, supplement labels H1, H2, D, E size view size chart to make a more complete;

--- E.15.1.3, "front reflector" to "side reflectors" error correction ISO ;

--- Table E.20, the "minimum number per side basis E.15.1.2" to "the minimum number of each side according to Figure E.20";

--- Table E.20, the values \u200b\u200bH1 pre-increase "<=", which is the upper limit should be specified.

The standard proposed by China Machinery Industry Federation.

This standard by the national earthmoving machinery Standardization Technical Committee (SAC/TC334) centralized.

Introduction

Earth-moving machinery designed to accommodate a wide range of jobs and workplaces, their size, quality, speed, and the working device becomes an integral part of Also a wide

range of. Thus, the combination of lighting, signal and marker lights and reflectors are different.

Depending on the application of this standard and speed of the machine, providing lighting, signal and marker lights and reflectors selection information.

Earthmoving machinery Lighting, signal and marker lights and reflectors

1 Scope

This standard specifies the minimum requirements for lighting, signal and symbol illumination and reflector installation and performance for use on earthmoving machinery.

This standard applies to GB/T 8498 defined off-highway tire and road type self or self crawler earth-moving machinery, this standard does not apply for walk-operated machines.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 8498 Earth - moving machinery - Basic types - Identification and terms and definitions (GB/T 8498-2008, ISO 6165:2006, IDT) ISO 303:2002 Road vehicles - motor vehicles and trailers with lighting and light signaling devices installation (Roadvehicles-Instalationoflightingandlightsignalingdevicesformotorvehiclesandtheirtrailers) ISO 7227. 1987 Road vehicles - Lighting and light signaling devices terminology (Roadvehicles-Lightingandlightsignal-ingdevices-Vocabulary)

3.1 Terms and Definitions

ISO 303, ISO 7227 define the following terms and definitions apply to this document.

3.1.1

Zero Y plane zeroYplane Vertical plane through the longitudinal center line of the machine.

Note: See GB/T 18577.1.

3.1.2

X plane Xplane

Any of a vertical plane perpendicular to the Y plane.

Note: See GB/T 18577.1.

3.1.3

Reference ground plane groundreferenceplane GRP Place a solid level machine.

3.1.4

Outermost extreme outer edge Parallel to the mid longitudinal plane of the machine, and the machine with lateral projections on either side of a plane in contact with the outer phase, without considering ground contact Projections near the tire and piezometers connected to the tire, mounted on the outwardly projecting anti-slip device, mirrors, wheel lateral directions Lights, front and rear position lights and brake lights.