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

GB/T 19933.5-2014

Replacing GB/T 19933.5-2005

**Earth-moving machinery -- Operator enclosure environment --
Part 5: Windscreen defrosting system test method**

土方机械 司机室环境 第5部分：风窗玻璃除霜系统的试验方法

(English Translation)

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Foreword

GB/T 19933 "moving machinery cab environment" is divided into six sections.

- Part 1. Terms and definitions;
- Part 2. Air filter test method;
- Part 3. Test methods for pressurization;
- Part 4. heating, ventilation and air conditioning (HVAC) test method and performance;
- Part 5. Test methods for windshield defrosting system;
- Part 6. Determination of effect of solar heating.

This section GB/T 19933 Part 5.

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

Test windshield defrosting system. This Part replaces GB/T 19933.5-2005 "moving machinery - Operator enclosure environment - Part 5 method". This portion of the GB/T 19933.5-2005 compared, in addition to editorial changes outside the main technical changes are as follows.

- The scope of Chapter 1, has been modified;
- An increase of some normative references (see Chapter 2, Section 2 of the 2005 edition);
- An increase of some terms and definitions (see Chapter 3, Section 3 of the 2005 edition);
- Added Figure 1;
- Modified Figures 2 and 3 (see Figures 2 and 3, 2005 in Figures 1 and 2);
- Increase the informative Appendix A.

This section uses the translation method identical with ISO 10263-5:2009 "moving

machinery - Operator enclosure environment - Part 5. windshield defroster Test Method System "(in English).

Consistency correspondence between this part of international documents and normative references of our files are as follows.

- GB/T 8591-2000 moving machinery - Seat index point (eqv ISO 5353:1995);
- GB/T 16936-2007 moving machinery net engine power test specifications (ISO 9249:1997, MOD);
- GB/T 19933.1-2014 moving machinery - Operator enclosure environment - Part 1. Terms and definitions (ISO 10263-1:2009, IDT).

This part is proposed by China Machinery Industry Federation.

This part of the National earthmoving machinery Standardization Technical Committee (SAC/TC334) centralized.

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1 Scope

GB/T 19933 provisions of this part of the test method for measuring moving machinery cab windscreen defrosting system performance. It includes a Functional test equipment qualification testing at laboratories in indoor and outdoor environments.

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.

ISO 5353:1995 Earth-moving machinery - Seat index point
ISO 9249 Earth-moving machinery net engine power test specification
(Earth-movingmachinery-Enginetestcode-Net power)
ISO 10263-1 moving machinery - Operator enclosure environment - Part 1. Terms and definitions
(Earth-movingmachinery-Operatorenclosureenvironment-Part 1. Termsanddefinitions)

3 Terms and Definitions

As defined in ISO 10263-1 and the following terms and definitions apply to this document.
For ease of use, repeat the following list ISO 10263-1 Some terms and definitions.

Windshield defrosters windscreendefrostingsystem Means for windshield defrosting.

[ISO 10263-1:2009, definitions 3.25] 3.2 Lighting opening daylightopening; DLO Through a glass window without any barrier of maximum opening, the glass window with a decorative molding and sealing materials.

[ISO 10263-1:2009, the definition of 3.4] 3.3 Defrost range defrostedarea Clean and dry surfaces and dissolve or partially melted (wet) coating the surface composition of the test range of the windshield, not including ice from a solid test Layer covered windshield range.

NOTE: Defrost range further illustrated in Figure 1.

[ISO 10263-1:2009, the definition of 3.6] 3.4 Heat transfer medium; HTM Defrost system to achieve the heating medium.

[ISO 10263-1:2009, definitions 3.12]