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

GB/T 19933.4-2014

Replacing GB/T 19933.4-2005

**Earth-moving machinery -- Operator enclosure environment --
Part 4: Heating, ventilation and air conditioning (HVAC) test
method and performance**

土方机械 司机室环境 第4部分：采暖、换气和空调（HVAC）的试验方法和性能
(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 Part of 419,933.

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

This Part replaces GB/T 19933.4-2005 "moving machinery - Operator enclosure environment - Part 4. cab air conditioning, heating and (or) Test methods for ventilation. " This portion of the GB/T 19933.4-2005 compared, in addition to editorial changes outside the main technical changes are as follows.

- Standard name changed to "moving machinery - Operator enclosure environment - Part 4. heating, ventilation and air conditioning (HVAC) test method and performance";
- Chapter 2, "Normative references" added the appropriate reference standard (see Chapter 2, Section 2 of the 2005 edition);
- Increasing the relevant terms and definitions (see Chapter 3, Section 3 of the 2005 edition);
- Remove the 2 "driver comfort curve" (see 2005 edition of Chapter 3);
- Modify the technical content;
- Increase the informative Appendix A.

This section uses the translation method identical with ISO 10263-4:2009 "moving machinery - Operator enclosure environment - Part 4. heating, ventilation and Air conditioning (HVAC) test method and performance "(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);
- GB/T 19933.2-2014 moving machinery - Operator enclosure environment - Part 2. Air filter test method (ISO 10263-2:2009, IDT);
- GB/T 19933.3-2014 moving machinery - Operator enclosure environment - Part 3. Test methods for supercharging (ISO 10263-3. 2009, IDT);
- GB/Part 6 T 19933.6-2014 moving machinery cab environment. Determination (ISO 10263- solar thermal effects 6.2009, IDT).

This part is proposed by China Machinery Industry Federation.

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

This section is responsible for drafting. Xiamen Product Quality Supervision and Inspection Institute [State field (plant) in the motor vehicle Quality Supervision and Inspection Center], the day Tianjin Construction Machinery Research Institute.

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1 Scope

GB/T 19933 provisions of this part of the harmonized test methods to test the ambient temperature inside the cab, in particular the temperature from around Environment provides heating, ventilation and air conditioning systems produce.

This method can not determine all the cab climate, because heat from the machine outside source (such as solar) heat generated negative Holland will have an impact on the driver's cab. In order to more accurately determine the total thermal load inside the cab, GB/T 619 933 and Part Combined with the application of this section.

This section provides the minimum performance level of the machine cab heating, ventilation and air conditioning system.

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) ISO 10263-2 moving machinery - Operator enclosure environment - Part 2. Air filter test method
(Earth-moving machinery-Operatorenclosureenvironment-Part 2. Airfilterelementtestmethod) ISO 10263-3 moving machinery - Operator enclosure environment - Part 3. Test methods booster
(Earth-movingmachinery-Operatorenclosureenvironment-Part 3. Pressurizationtestmethod) ISO 10263-6 moving machinery - Operator enclosure environment - Part 6. Determination of effect of solar heating (Earth-moving machinery-Operatorenclosureenvironment-Part 6. Determinationofeffectofsolarheating)

3 Terms and Definitions

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

Cab operatorenclosure Machine part completely surrounded drivers can avoid the outside air, dust or other substances into the area around the driver.

[ISO 10263-1:2009, definitions 3.14] 3.2 the driver environment operatorenclosure environment
Determined by the temperature and wind speed measuring point space around the driver.