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

GB/T 19933.2-2014

Replacing GB/T 19933.2-2005

**Earth-moving machinery -- Operator enclosure environment --
Part 2: Air filter element test method**

土方机械 司机室环境 第2部分：空气滤清器试验方法
(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 2.

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

This Part replaces GB/T 19933.2-2005 "moving machinery - Part 2 cab environment. air filter test." Headquarters Points compared with the GB/T 19933.2-2005, in addition to editorial changes outside the main technical changes are as follows.

- Chapter 2, "Normative references" added the appropriate reference standard (see Chapter 2, Section 2 of the 2005 edition);
- Delete the text in the table (see the 2005 edition of the Table 1, Table 2 and Table 3);
- Original 1 modifications are divided into Figures 1 and 2 (see Figures 1 and 2, 2005 Figure 1);
- Added Appendix B "alternative air filter performance evaluation." this section uses the translation method identical with ISO 10263-2:2009 "moving machinery - Operator enclosure environment - Part 2. Air filter test Test method "(in English).

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

--- 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 section, a uniform test method for determining the cab air filter plate performance level. The filter Qing used to filter to the power fed into the fresh air moving machinery cab.

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 5011:2000 internal combustion engine and compressor air intake cleaning device performance test (Inletaircleaningequipment forinternalcombustionenginesandcompressors-Performancetesting) ISO 10263-1 moving machinery - Operator enclosure environment - Part 1. Terms and definitions (Earth-movingmachinery-Operatorenclosureenvironment-Part 1. Termsanddefinitions) ISO 12103-1 Road vehicles - Test dust filter assessment - Part 1. Arizona test dust (Road vehicles-Testdustforfilterevaluation-Part 1. Arizonatestdust)

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.

Filtration efficiency filterefficiency Air filter to remove dust level capabilities.

[ISO 10263-1:2009, the definition of 3.8] 3.2 Cab air filter operatorenclosureairfilterelement Remove dust cab supply system components.

[ISO 10263-1:2009, definitions 3.15] 3.3 Test Dust Used to evaluate the performance of the

air filter dust.

[ISO 10263-1:2009, definitions 3.22]

4 Air filter performance test

Test shroud structure for the cab environment cleaner comparison test, see 4.1.1 and Figure 1, the test program also shows the recommended dust Ingress rate of the mixing chamber.