

ICS 53.100
CCS P 97



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

GB/T 19933.6-2014

Replacing GB/T 19933.6-2005

**Earth-moving machinery -- Operator enclosure environment --
Part 6: Determination of effect of solar heating**

土方机械 司机室环境 第6部分：太阳光热效应的测定

(English Translation)

Issued on: July 24, 2014

Implemented on: January 1, 2015

Issued by: Standardization Administration of China

Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and Definitions
4 General Provisions
5 Test Equipment

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 6.

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

This Part replaces GB/T 19933.6-2005 "moving machinery - Operator enclosure environment - Part 6. Measuring cab solar thermal effects set". This portion of the GB/T 19933.6-2005 compared, in addition to editorial changes outside the main technical changes are as follows.

- Increased Chapter 2, "Normative references";
- Increased Chapter 3, "Terms and Definitions";
- Increase the Chapter 4, "General Provisions";
- Adjustment and increased Chapter 5, "test equipment";
- Modify the technical content.

This section uses the translation method identical with ISO 10263-6:2009 "moving machinery - Operator enclosure environment - Part 6. effect of solar heating Determination

"(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);

--- Section 4 GB/T 19933.4-2014 moving machinery cab environment. heating, ventilation and air conditioning (HVAC) test Test methods and performance (ISO 10263-4:2009, 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.

Participated in the drafting of this section. Xiamen, Xiamen Engineering Machinery Co., Ltd., Xiamen Engineering Machinery Co., Ltd. Yuming.

1 Scope

GB/T 19933 provisions of this part of the test chamber simulated sunlight heat through natural sunlight or simulated light measurement of the heat radiation Test Method shoot.

This section applies to the cab is equipped with earth-moving machinery.

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 10263-1 moving machinery - Operator enclosure environment - Part 1. Terms and definitions (Earth-movingmachinery-Operatorenclosureenvironment-Part 1. Termsanddefinitions) ISO 10263-4 moving machinery - Operator enclosure environment - Part 4. heating, ventilation and air conditioning (HVAC) test method and performance [Earth-moving machinery-Operatorenclosureenvironment-Part 4. Heating, ventilationandair conditioning (HVAC) testmethodandperformance]

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.

Solar thermal effects solarheating in order to maintain a comfortable temperature inside the cab, in determining the necessary air circulation and cooling requirements to consider when sunlight energy factor.

[ISO 10263-1:2009, definitions 3.20] 3.2 Solar radiation solarradiantenergy Generating effect of solar heating process.

[ISO 10263-1:2009, definitions 3.21]

4 General Provisions

4.1

Record heat radiation method is expected to cause changes in the cab air conditioning system test.

4.2

This method should be given in the ISO 10263-4 test used in conjunction.

5 Test Equipment

5.1

Test devices. pyranometer, the test accuracy of $\pm 3\%$.

5.2

source. thermal radiation of 45% or more of the lamp should be greater than 700J.