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

GB/T 25615-2010

Replacing GB/T 16710.5-1996

**Earth-moving machinery -- Determination of emission sound
pressure level at operators position -- Dynamic test conditions**

土方机械 司机位置发射声压级的测定 动态试验条件

(English Translation)

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Table of Contents

- Foreword
- Introduction
- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Instrument
- 5 Test Environment

Foreword

This standard is identical with ISO 6396:2008 "moving machinery - Determination of emission sound pressure level position - Dynamic test conditions" (English Chinese Version).

This standard is equivalent translation ISO 6396:2008.

For ease of use, the standard ISO 6396:2008 made the following editorial changes.

- The "this International Standard" be replaced by "this standard";
- Instead of using the decimal point as a decimal point ",", " ";
- Delete foreword international standards;
- To ISO 6396:2008 international standard referenced with international standards have been adopted in place of the corresponding standard;
- GB/T 14574-2000 and GB/T 17248.1-2000 moved from the reference to Chapter 2 normative references.

This standard is a revision of GB/T 16710.5-1996 "position of the driver moving machinery - Dynamic test conditions measured noise" in.

This standard compared with GB/T 16710.5-1996, the main changes are as follows.

- Standard name by the "Driver position of noise machinery - Dynamic test conditions of determination" to "position moving machinery Determination of emission sound pressure levels Dynamic test conditions ";
- Increased introduction, and references Appendix A;
- Expanding the applicable standards earthmoving machinery type.

Original standard applies to four types of machines. excavators, bulldozers, loaders, backhoe loaders.

Now the machine is applicable for the 11 categories. bulldozers, loaders, backhoe loaders, excavators, dump trucks, scrapers, motor grader, pipelayer Machine, trencher, landfill compactors, rollers.

--- State of the driver, is now the standard by driving and walking machines operated machines were provisions;

--- Modify the air conditioning and/or pressurized ventilation system operating speed gear used during the test;

--- Information recording and reporting of information, increasing the fan speed and so on;

--- Marking an increase of acoustic emission values and uncertainty.

This standard replaces GB/T 16710.5-1996.

Appendix A of this standard is a normative appendix.

The standard proposed by China Machinery Industry Federation.

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

Introduction

This standard is specific testing procedures for earth-moving machinery GB/T 8498 definition.

This standard uses dynamic simulation test conditions instead of the actual work cycle test condition. Dynamic simulation test conditions provide a re Noise emission data multiplexing and representative, and the actual work cycle test condition is very complex and difficult to reproduce.

Special test procedures specific provisions of this standard test procedure enables the dynamic test conditions in a repeatable conditions measured driver A time-weighted average sound pressure level position. Manufacturer's product should be fitted with attachments (buckets, blades, etc.), these attachments are in actual use, the machine most likely configuration.

The standard machine can be used to determine compliance with noise limits, noise reduction can also be used to evaluate the study.

GB/T 25614 "Earth-moving machinery - Determination of sound power level - Dynamic test conditions" as another supplementary testing procedures, this special test regulations Cheng used to determine the dynamic test under the conditions of noise emitted by earth-moving machinery A-weighted sound power level.

GB/T 25612 "Determination of sound power levels of earthmoving machinery set-test conditions" and GB/T 25613 "moving machinery position Determination of emission sound pressure levels of set test conditions "were provided for under the stationary test conditions, environmental noise emission and noise at the location of the driver the corresponding test methods.

Earthmoving machinery the driver position emission sound pressure level measurement
Dynamic test conditions

1 Scope

This standard specifies the machine running under dynamic test conditions, the time-averaged A-weighted emission sound pressure position moving machinery Determination of levels.

This standard applies to GB/T 8498 defined and GB/T 25614-2010 "moving machinery - Determination of sound power levels of dynamic test Test conditions "specified in Appendix A of earthmoving machinery.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 8420 moving machinery physical dimensions of operators and minimum operator space (GB/T 8420-2000, eqv ISO 3411:1995) GB/T 8498 Earth - moving machinery - Basic types - Identification and terms and definitions (GB/T 8498-2008, ISO 6165:2006, IDT) GB/T 14574-2000 Acoustics Declaration and verification of noise emission values \u200b\u200b of machinery and equipment of (eqv ISO 4871:1996) GB/T 16936 earthmoving machinery net engine power test specification (GB/T 16936-2007, ISO 9249:1997, MOD) Noise determination Job Location GB/T 17248.1-2000 Acoustics emitted by machinery and equipment and other specified positions emission sound pressure Basis of standard grade Guidelines for the use (eqv ISO 11200:1995) GB/T 17248.2 Acoustics machinery and equipment noise emission and other operating positions specified position measuring emission sound pressure levels A reflecting plane free field engineering method (GB/T 17248.2-1999, eqv ISO 11201:1995) GB/T 25614-2010 moving machinery - Determination of sound power level - Dynamic test conditions (ISO 6395:2008, IDT) IEC 61672-1 electrical acoustic sound level meters - Part 1. Specification

3 Terms and Definitions

GB/T 17248.2 and GB/T 8498 and established the following terms and definitions apply to this standard.

Time average A-weighted sound pressure level

time-averaged A-weighted sound pressure level $L_{pA, T}$ Over the entire measurement time T , A-weighted sound pressure level by averaging the energy.

4 Instrument

The instrument should be able to be measured according to the provisions of Chapter 8. Instruments data acquisition system should be preferred in compliance with IEC 61672-1 Class 1 to Seek points average sound level meter.

5 Test Environment

The test environment uses standard GB/T 25614 "Earth-moving machinery - Determination of sound power level - Dynamic test conditions" specified.