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

GB/T 9139.1-1988

Replacing GB/T 9139-2008

**Earth-moving machinery -- Hydraulic excavators -- Technical
specifications**

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 9139-2008 "Technical Conditions for Hydraulic Excavators". This standard is compared with GB/T 9139-2008, except for editing the main technical changes outside the series are as follows.

- Add or remove normative references (see Chapter 2, Chapter 2 of the 2008 edition);
- Modified terms and definitions (see Chapter 3, Chapter 3 of the 2008 edition);
- Revised the form of the regulations (see 4.1, 2008 version 4.1);
- Revised the model specification (see 4.2, 2008 edition 4.2);
- Revised the main parameters (see 4.4, 2008 version 4.4);
- Revised the general requirements and performance requirements (see 5.1 and 5.2, the 2008 version of 5.1);
- Revised the requirements of the security requirements (see 5.3, 5.4 of the 2008 edition);
- Revised the requirements for environmental protection and comfort requirements (see 5.4, 5.2 and 5.3 of the 2008 edition);
- Revised the regulations for factory inspection and type inspection (see 7.1, 7.1 of 2008 edition);
- Revised the provisions of the product label content (see 8.1.2, 8.1.2 of the 2008 edition);
- Change Appendix A to an informative appendix and modify the main parameters of the excavator (see Appendix A, Appendix A of the 2008 edition);
- Added references (see references).

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Earthmoving Machinery Standardization Technical Committee (SAC/TC334).

1 Scope

This standard specifies the terms and definitions, classification, requirements, test methods, inspection rules, marking, packaging, transportation and storage of hydraulic excavators.

This standard is applicable to tire type and crawler type hydraulic excavators with the working quality not exceeding 200000kg as specified in GB/T 8498 (below Referred to as "excavator").

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

General rules and safety requirements for GB/T 3766 hydraulic drive systems and their components GB/T 6572 earthmoving machinery hydraulic excavator terminology and commercial specifications GB/T 7586 earthmoving machinery hydraulic excavator test method GB/T 8419-2007 Laboratory evaluation of the vibration of the driver's seat of earth-moving machinery GB/T 8498 earthmoving machinery basic type identification, terminology and definition Method for measuring the position of the center of gravity of GB/T 8499 earthmoving machine GB/T 8595 earthmoving machinery driver's operating device GB/T 10913 earthmoving machine speed measurement GB/T 13331 earthmoving machinery hydraulic excavator lifting weight GB/T 13332 Earthmoving machinery hydraulic excavator and backhoe loader measuring method GB/T 14039-2002 Hydraulic transmission oil solid particle pollution level code GB 16710 earthmoving machinery noise limit GB/T 16937 earth-moving machinery driver vision test method and performance criteria GB/T 18826 Industrial 1,1,1,2-tetrafluoroethane (HFC-134a) GB/T 19929 Performance requirements and test methods for earthmoving machinery crawler type machine brake systems GB/T 19933.2 Earthmoving machinery cab environment - Part 2. Air filter test method GB/T 19933.4 Earthmoving machinery cab environment - Part 4. Test methods for heating, ventilation and air conditioning (HVAC) performance GB/T 19933.5 Earth-moving machinery cab environment - Part 5. Test method for windshield defrosting system GB/T 20082 Hydraulic fluid transmission liquid contamination method for determining particle contamination by optical microscopy GB .20178 Earth-moving machinery machine safety label general rules GB/T 20418 earthmoving machinery lighting, signal and sign lights and reflectors GB 20891 Diesel engine exhaust pollutant emission limit and measurement method for non-road mobile machinery (China's third and fourth stages) GB/T 21152 Performance requirements and test methods for earth-moving or high-speed rubber crawler-type machine brake systems GB/T 21154 earthmoving machinery machine and its

working device and component quality measurement method GB/T 21935 Comfortable
area and accessibility of earthmoving machinery GB/T 21941 Earthmoving machinery
hydraulic excavator and backhoe loader bucket and grab bucket capacity calibration GB/T
21942 Earthmoving machinery loader and front shovel bucket capacity calibration