



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

GB/T 41101.3-2021

**Earth-moving machinery - Sustainability - Part 3: Used
machines**

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foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents"

drafted:

This document is part 3 of GB/T 41101 "Earth-moving Machinery Sustainability": GB/T 41101 has released the following parts:

--- Part 1: Terminology, Sustainability Factors and Reporting;

--- Part 2: Remanufacturing;

--- Part 3: Used machines:

This document is equivalent to ISO 10987-3:2017 "Earth-moving machinery sustainability - Part 3: Used machinery":

The following editorial changes have been made to this document:

--- Since the ANSI Z26:1 referenced in the international document 4:4b) for informational reference has been abolished, delete the reference to it in this document 4:4b);

--- Since the informative reference to "IEC 61310-1:1995 Figure 8" in International Document 4:4d) is wrong, the verification should be "ISO 7010:

2011, Figure E001", changed in 4:4d) of this document to modify the figure of "GB/T 31523:1-2015 using ISO 7010:2011"

1-01", there are no technical differences in what is cited:

Please note that some content of this document may be patented: The issuing agency of this document assumes no responsibility for identifying patents:

Introduction

GB/T 41101 "Earth-moving Machinery Sustainability" is the basic and universal guide to carry out sustainable activities in the field of earth-moving machinery in my country

The standard is intended to consist of three parts:

--- Part 1: Terminology, sustainability factors and reporting: The purpose is to clarify the general principles of the sustainability of earthmoving machinery, define the possible

Sustainability terms and important sustainability factors for earthmoving machinery, etc:

--- Part 2: Remanufacturing: The purpose is to help remanufacturers establish a consensus on remanufacturing technical specifications, thereby improving remanufactured products:

the quality of:

--- Part 3: Used machines: The purpose is to establish a universal, scientifically reasonable, operable and economical earthmoving machine

Second-hand machinery technical specifications, provide technical guidance for the evaluation of second-hand machinery, and improve the quality of second-hand machinery:

With the increase in the number of earth-moving machinery products, there are tens of thousands or hundreds of thousands of second-hand earth-moving machinery in the world every year:

There are various problems in the operation safety, pollution emission, noise, energy consumption and performance of mobile phones, which may cause personal safety, environmental damage, etc:

and engineering quality and other aspects of risk hidden dangers, and customers of second-hand machines do not have the ability to identify such problems:

The main functions and significance of the formulation of this document are as follows:

a) Provide technical guidance for the evaluation of used earth-moving machinery:

1) Promote the standardized, healthy and orderly development of the used earth-moving machinery market;

2) Improve and protect the rights and interests of both parties;

3) Reduce the comprehensive cost of customer purchase and use;

4) Enable customers to enjoy more added value:

b) Improve the quality of used machines:

1) Make use of the follow-up value of second-hand machines;

2) Realize the sustainable application of the whole life cycle of earthmoving machinery products;

3) Promote the application of remanufactured products in used machines;

4) Promote the rational use of social resources:

Earthmoving Machinery Sustainability

Part 3: Used Machines

1 Scope

This document gives information on the requirements and evaluation of used machines:

This document describes the means of evaluating used machines and the relevant information provided by the manufacturer in the driver's manual to verify used machines

The function is consistent with the expected function:

This document applies to earth-moving machinery as defined in ISO 6165 that has been used and placed on the market:

Note: Used machines may not comply with existing standards and legal regulations (eg on-road driving, hazardous environments):

2 Normative references

The contents of the following documents constitute indispensable provisions of this document through normative references in the text, among which the dated references are:

documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to

this document:

ISO 6165 Earth-moving machinery basic types identification, terms and definitions
(Earth-movingmachinery-Basictypes-

Identificationandtermsanddefinitions)

Note: GB/T 8498-2017 Earth-moving machinery basic type identification, terms and definitions (ISO 6165:2012, IDT)

ISO 10987 Earth-moving machinery sustainability terms, sustainability factors and reporting
(Earth-movingmachinery-Sus-

tainability-Terminology,sustainabilityfactorsandreporting)

Note: GB/T 41101:1-2021 Earthmoving Machinery Sustainability Part 1: Terminology, Sustainability Factors and Reporting (ISO 10987:2012, IDT)

3 Terms and Definitions

Terms and definitions defined in ISO 6165 and ISO 10987 and the following terms and definitions apply to this document:

ISO and IEC maintain terminology databases for standardization at the following addresses:

---ISO online browsing platform: <http://www.iso.org/obp>

---IEC Electronic Encyclopedia: <http://www.electropedia.org>

3:1

used machine

Earth-moving machinery that has been used and that has been put on the market:

3:2

Warranty period

Commitment to the second-hand machine (3:1) to guarantee the quality and the period of repair:

Note: The warranty period is calculated from the date of delivery after the contract is signed:

3:3

abnormal noise

An abnormal sound that can indicate that a machine part is not functioning properly: