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

GB/T 32819-2016

**Earth-moving machinery - Classification and marking for the
recoverability of components**

土方机械 零部件可回收利用性分类及标识

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Quarantine;
Standardization Administration of the PRC**

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009. This standard is proposed by the China Machinery Industry Federation. This standard is under the jurisdiction of the National Technical Committee for Standardization of Earthmoving Machinery (SAC/TC334). This standard is responsible for drafting units. Tianjin Engineering Machinery Research Institute, Xiamen Xiamen Engineering Machinery Co., Ltd., Anhui Bo a fluid drive shares Co., Ltd., Xiamen City Loader Co., Ltd., Xiamen City Jiasheng Construction Machinery Co., Ltd. This standard participates in the drafting unit. Xuzhou Xugong Mining Machinery Co., Ltd., Hebei Xuanhua Construction Machinery Co., Ltd., Ningbo Guangtian Kesi Hydraulic Co., Ltd. The main drafters of this standard. Li Guangqing, Li Weiping, Min Yuchun, Wang Xiaozhong, Che Gang, Ma Yumin, Yu Jie, Yao Guangshan, Li Zhiyong. Earthwork machinery Recyclability Classification and Identification of Parts

1 Scope

China's national standard for classifying and marking the recoverability of earth-moving machinery components - the requirement that a machine be designed, and its parts labelled, so that at the end of its life the person dismantling it knows what each piece is and what can be done with it. An excavator at end of life is several tonnes of mixed material, and whether that becomes recovered steel, remanufactured assemblies and properly handled hazardous waste, or simply a heap, is decided years earlier by the manufacturer. The standard specifies the classification of the components of earth-moving machinery according to their recoverability and the marking that carries that classification, and it applies to the design, the manufacture and the end-of-life treatment of earth-moving machinery. The classification separates what can be reused as it is, what can be remanufactured to a condition equal to new, what can be recycled as material, what can be recovered as energy, and what must be disposed of as waste, with the components carrying fluids and hazardous substances - the batteries, the accumulators, the oils, the coolants and the refrigerants - identified separately, since those are what turn a dismantling yard into a contaminated site if they are not removed first. The marking requirements make the classification usable: the symbols, where they must be applied and how they must

survive the working life of the machine, and the information the manufacturer must provide with it. It is the companion of GB/T 32803 on the classification of components for remanufacture and GB/T 32805 on their cleaning, and together the three describe the route a used component takes from a scrapped machine back into service. Issued on 29 August 2016 and in force since 1 March 2017.

This standard specifies the terms and definitions, classification and marking requirements for the recyclability of earthmoving machinery components. This standard applies to the use of earthwork machinery, metal parts, the quality of more than 100g of plastic parts, the quality of more than 200g of rubber Plastic parts, thermoplastic elastomers, composites and other non-metallic materials. Quality is less than the provisions of this standard parts can refer to use.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 28619 Termination Terminology

GB/T 30964 Terminology and calculation methods for earth electrical machinery reusability and recyclability

3 Terms and definitions

GB/T 28619 and GB/T 30964 and the following terms and definitions apply to this document.

3.1 Earthmoving machinery parts recyclable marking

markingforrecoverabilityofEMcomponents Indicating that earthmoving machinery parts are special symbols for recyclable parts.

Note. EM is an abbreviation for earth-movingmachinery.

3.2 Recycling After reprocessing the waste so that it can meet its original requirements or for other purposes, including the ability to produce energy Processing process.

3.3 Recoverability recoverability Parts and/or materials can be dismantled from scrap machines for recycling.

3.4 Complete recoveries completelyrecyclablecomponents Metal materials, etc. can be fully recycled without labeling the recyclable logo parts.

3.5 Recyclable recyclablecomponents Recyclable plastic parts, rubber parts, thermoplastic elastomer parts, composite materials and other non-metallic parts.

3.6 Remanufacturable components It is confirmed by inspection that old parts that can be restored or raised by remanufacturing.

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