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

GB/T 35191-2017

Earth-moving machinery - Crawler pipelayers

土方机械 履带式吊管机

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Table of Contents

- 1 Scope
- 2 Normative references

Foreword

This standard was 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 by the National Earth Machinery Standardization Technical Committee (SAC/TC334) centralized. This standard is drafted by Tianjin Engineering Machinery Research Institute, Tai'an Taishan Construction Machinery Co., Ltd., Langfang Pipeline Machinery Equipment Co., Ltd. Participated in the drafting of this standard. Shantui Construction Machinery Co., Ltd., Hebei Xuanhua Construction Machinery Co., Ltd., Shanghai Peng Pu machine Factory Co., Ltd., Caterpillar (Qingzhou) Co., Ltd., Guangxi Liugong Machinery Co., Ltd. The main drafters of this standard. Jia Xiaowen, Wu Hongli, Zhao Jinjun, Zhang Wanfu, Liu Peihai, Ren Jie, Chen Baoming, Li Yu, Yu Chuanfen. Earth-moving machinery Crawler Pipelayer

1 Scope

China's national standard for crawler pipelayers. A pipelayer is a tracked tractor with a boom on one side and a counterweight on the other, built for one job: lifting a welded pipeline string off the skids and lowering it into the trench. It looks like a crane and is not one. The load hangs from a fixed boom that swings only with the machine, the counterweight is extended or retracted to balance rather than the boom being luffed, and pipelayers work in gangs of three or four spaced along the string, each carrying part of a load that is flexing between them. That last point is what makes the machine specialised: the pipe is a beam hundreds of metres long, it must not be bent past its elastic limit while being lowered, and the machines must move together so that no one of them takes too much. The requirements cover the lifting capacity, the stability and the controllability that this work demands, in a machine that also has to travel a right of way across open country.

This standard specifies the classification, requirements, test methods, inspection rules, signs, packaging, transportation and storage of crawler pipelayer. This standard applies to the working device for hydraulic transmission, mechanical transmission crawler pipe hanging machine (hereinafter referred to as pipelayer).

2 Normative references

The following documents for the application of this document is essential. For dated

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

GB/T 3766 hydraulic drive systems and components of the general rules and safety requirements

GB/T 4208 enclosure protection (IP code)

GB/T 8499 earth moving machinery to determine the location of the center of gravity method

GB/T 8595 earth-moving machinery driver's operating device

GB/T 10051 (all parts) lifting hook Earth-moving machinery

GB/T 10913 Determination of speed

GB/T 12602 crane overload protection device

GB/T 13306 signs Hydraulic fluid - Particulate code for the determination of solid particles pollution level

GB/T 14039-2002 Crawler cranes GB/T 14560-2016

GB 16710 earth machinery noise limits

GB/T 16936 earthmoving machinery net power test specification Earthwork machinery driver field test methods and performance criteria

GB/T 17771 earth machinery fall protection structure laboratory test and performance requirements

GB/T 17922 Earth-moving machinery rolling protection structure laboratory tests and performance requirements