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

GB/T 26408-2020

Replacing GB/T 26408-2011

Concrete truck mixers

混凝土搅拌运输车

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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 26408-2011 "Concrete Mixer Truck": Compared with GB/T 26408-2011, except for editorial revisions The main technical changes of the external change are as follows:

- The definition of "ready-mixed concrete" is changed to "homogeneous concrete" (see 3:4);
- Modified the definition of "stirring capacity" (see 3:7);
- Modified the definition of "mixing capacity" (see 3:8);
- Modified the definition of "feed rate" (see 3:10);
- Modified the definition of "discharge speed" (see 3:11);
- Added the definition of "load quality utilization factor" (see 3:13);
- Modified the basic parameters of the mixer truck (see 5:1:8);
- Modified the emission requirements for mixer trucks (see 5:1:12);
- Modified the judgment requirements for the overflow of the mixer truck during loading and transportation (see 5:1:17);
- Modified the discharge residual rate of the mixer truck (see 5:1:23);
- Added the requirements and calculation methods of the load mass utilization factor (see 5:1:24);
- Added the requirements for mixer trucks when using new energy power and semi-trailers (see 5:1:25, 5:1:26);
- Modified the design speed of the mixing drum (see 5:3:4);

1 Scope

China's national standard for concrete truck mixers. It specifies the classification, the

requirements, the test methods, the inspection rules and the marking, packaging, transport and storage of truck-mounted mixers used to carry ready-mixed concrete. The truck mixer exists because concrete has a clock running from the moment water meets cement, and everything about the vehicle follows from that. The drum turns during transport not to mix the load but to keep it from segregating and stiffening in place: the coarse aggregate would settle out of a static load and the paste would begin to set against the drum wall, and either would arrive as something that cannot be placed. So the drum, its helical blades, its rotation speed and its ability to discharge completely are the machine, and the discharge matters as much as the carriage - a load that will not come out cleanly leaves hardened concrete in the drum, and drum build-up is what eventually kills the vehicle. The standard also has to deal with the fact that this is one of the least stable vehicles on the road. The load is dense and it is carried high, so the centre of gravity is far above that of a normal truck, and it is liquid, so it moves: the concrete surges when the vehicle brakes, and it slops sideways in a corner, adding a dynamic moment on top of an already high static one. Roll-over is the characteristic accident of the type. So alongside the mixing and discharge performance the standard specifies the drum and its supports, the drive and hydraulics, the water system, the chassis interface and the mass distribution, the residual concrete after discharge, and the stability and safety requirements. Issued on 14 December 2020 and in force since 1 November 2021, it replaces GB/T 26408-2011.

01 Highway Engineering Technical Standard

2 Normative references

The following documents are indispensable for the application of this document: For dated reference documents, only the dated version applies to this article. For undated references, the latest version (including all amendments) applies to this document:

GB 1495 Limits and measurement methods of noise outside the vehicle during acceleration

GB 1589 External dimensions, axle load and mass limits of automobiles, trailers and automobile trains GB/T 3730:

GB 4785 Regulations for the installation of external lighting and light signal devices for automobiles and trailers

GB 7258 Safety technical conditions for motor vehicle operation GB/T 9142 Concrete mixer

GB 11567 Protection requirements for side and rear bottom of automobiles and trailers

GB/T 12534 General Rules for Automobile Road Test Methods

GB/T 12539 Test Method for Steep Climbing Vehicles

GB 12676 Technical requirements and test methods for braking systems of commercial vehicles and trailers

GB 17691 Limits and measurement methods for pollutant emission from heavy-duty diesel vehicles (China Phase 6)

GB/T 18411 Motor vehicle product label

GB 20891 Diesel engine exhaust pollutant emission limits and measurement methods for non-road mobile machinery (China Phase III and IV)

GB/T 23336 General technical requirements for semi-trailers JTGB

QC/T 252 Type-setting test procedures for special purpose vehicles

QC/T 587 Tank-type automobile product quality inspection and assessment method

QC/T 29104 The limit of solid particle pollution of hydraulic oil in hydraulic system of special vehicle QC/T 29105:

3 Terms and definitions

The following terms and definitions defined in GB/T 3730:1 and QC/T 29105:1 apply to this document: