

ICS 53.06
CCS J 83

MT

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

MT/T 769-1998

**Adaptability test method for open-cast mines mining dump
trucks**

(English Translation)

Issued on: November 10, 1998

Implemented on: April 1, 1999

Issued by: State Administration of Work Safety

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Adaptability test method for open-pit coal mine dump truck

1 Scope

This standard specifies the instruments, items, contents, methods and data for the adaptability test of dump trucks for open-pit mining deal with.

This standard applies to diesel-powered dump trucks.

2 Reference standards the following standards contain provisions that, through reference in this standard, constitute provisions of this standard. At the time of publication, the editions shown were all is effective. All standards will be revised, and all parties using this standard should explore the possibility of using the latest versions of the following standards.

1334-1077 Road test methods for trucks and off-road vehicles GB J22-1987 Code for design of roads in factories and mines JB 3692-1984 Quality requirements for heavy mining dump trucks JB 3694-1984 Test method for typesetting of heavy mining dump trucks JB/T 7641.1-1994 technical conditions for electric drive mining dump trucks JB/T 7641.2-1994 test method for electric drive mining dump truck ISO

2631 Evaluation Guide for Human Body Sustained with Whole Body Vibration

3 Definition

This standard uses the following definition.

3.1 Mining Dump Truck dump trucks Mine load 15 Above t, diesel-powered dump trucks.

3.2 open-pit

A site with a complete production system for open-pit mining.

3.3 Dumping Site

site

A place where stacks are stacked.

3.4 Full load

load

The dump truck is rated for full load $\pm 5\%$.

4 General requirements

4.1 The dump truck selected by the mine shall be a national stereotyped product, and its overall vehicle performance index and mechanical transmission vehicle shall comply with JB 3692, Electric transmission cars should Conform to JB/T 7641.1.

4.2 According to the results measured by this standard, the relevant technical documents of the dump truck shall be met. Miners and vehicle manufacturers have special characteristics for dump trucks Requirements, in addition to meeting the requirements of this standard, vehicles should be evaluated according to special requirements.

4.3 All assemblies and parts of the dump truck shall be adjusted, inspected and assembled in accordance with the official drawings and technical documents, and the adjustment status shall conform to the vehicle Provision of technical conditions.

4.4 Each main assembly of the dump truck shall have a formal factory inspection or test report for the product.

4.5 The various oil, grease, brake pads and coolant grades used by the dump truck shall comply with the technical requirements of the truck or the provisions of the current national standards.

When the requirements cannot be met, the substitute oil and grease should be tested and detailed records should be made.

4.6 The tire pressure shall comply with the manufacturer's regulations, and the error shall not exceed the specified value ± 10 kPa, and make a good record.

4.7 During the test, the engine water temperature and the oil temperature of each assembly shall meet the requirements of the vehicle's instruction manual.

4.8 During the performance test of the dump truck into the mine, it is not allowed to replace parts at will, and if it has to be replaced, it must be approved by the test organization and Make detailed records.

4.9 During the test, normal technical maintenance shall be performed according to the dump truck instruction manual, and detailed records shall be made.

4.10 The weight of the dump truck during the test shall meet the full load requirements of the truck.

4.11 Test road conditions and climatic conditions refer to GB 1334.

5 Preparation before test

5.1 Dump Truck Inspection

5.1.1 Register the name, model, main assembly number and date of manufacture of the dump truck.

5.1.2 Check the main technical documents of the dump truck, and register the inspection results of all assemblies and components and the materials of the main structural parts.

5.1.3 According to the requirements of the product technical documents, check the integrity of the registered dump truck assembly and accessories, the degree of tightening of external fasteners, and each assembly.

The amount of lubricating oil, cooling fluid and the fixation of various pipelines.

5.1.4 Check that the assembly of each part should be in good performance, running smoothly, no noise, stable engine idling, and normal oil pressure.

5.2 Running-in of dump truck

5.2.1 The running-in mileage of the dump truck before the test, the driving method during the running-in period, the speed limit, the replacement of various greases, the load limit, etc.

According to the manufacturer's technical documents.

5.2.2 During the running-in period, the fastening conditions of each part of the dump truck and the working conditions of each assembly should be regularly checked.

Make detailed records.

5.3 Test instrument requirements Various test instruments and equipment for testing should be regularly verified by the national metrology department, and their range and accuracy should be selected in accordance with national technical supervision Quality inspection requirements.

6 Ground pressure test

6.1 Test purpose

Measure the average specific pressure of the front and rear wheels of the dump truck on the ground.

6.2 Test conditions

6.2.1 Choose a flat, dry site with similar conditions to the stope, dump, and trunk road.

6.2.2 The dump truck is uniformly loaded to 100% ~ 105% of the rated load.

6.2.3 The tire pressure shall be in accordance with 4.6.

6.2.4 The tyre shall be selected new or the pattern wear shall not exceed 1/3 of the original height.