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

GB 252-2015

**General diesel fuels
(English Translation)**

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Foreword

Clauses 4, 6 and 8 of this standard are mandatory and the rest are recommended.

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB 252-2011 "General diesel fuels". As compared with GB 252-2011, the main changes of this standard are as follows.

- ADD clause 4.1 additives used in general diesel fuel shall have no known harmful effects and shall be used in accordance with the recommended appropriate dosage. General diesel fuel shall not contain any additives or contaminants that can cause the engine to malfunction (see 4.1).
- MODIFY the second paragraph of the Scope to. This standard applies to petroleum-based or additive-added additives general diesel fuel used in compression ignition engines such as tractors, diesel locomotives, construction machinery, inland vessels and generator sets (see clause 1).
- DELETE clause 3 Terms and definitions (see clause 3 of the 2011 version);
- DELETE the relevant content of No.10 general diesel fuel (see Table 1);
- MODIFY the limit of sulfur content index in general diesel fuel (see Table 1);

- ADD the technical requirements for general diesel lubricity and fatty acid methyl ester content (see Table 1);
- MODIFY clause 5 into "Sampling", with content is modified accordingly (see clause 5; clause 6 of the 2011 version);
- MODIFY clause 7.1 to. "6.1 The equipment used for general diesel fuel sold to the user in accordance with Table 1 of this standard shall clearly indicate the grade and name of the product. Example. No.0 general diesel fuel (see 6.1; clause 7.1 of 2011 version);
- ADD clause 8.Implementation of standard (see clause 8).

This standard shall be under the jurisdiction of the National Petroleum Products and Lubricants Standardization Technical Committee (SAC/TC 280).

The drafting organization of this standard. Petrochemical Research Institute of China Petroleum and Chemical Corporation.

The main drafter of this standard. Ni Bei.

This standard replaces the standard previously issued as follows.

- GB252-1964, GB 252-1977, GB 252-1981, GB 252-1987, GB 252-1994, GB 252-2000, GB 252-2011.

General diesel fuels

Warning. If the appropriate precautions are not observed, the products covered by this standard may be dangerous during production, storage and use. This standard is not intended to advise on all safety issues related to this product. It is the responsibility of the user to establish appropriate safety and precautions before using this standard and to determine the applicability of the relevant regulatory restrictions.

1 Scope

This standard specifies the product classification, technical requirements and test methods, sampling and marking, packaging, transportation and storage, safety and standard implementation of general diesel fuels.

This standard applies to petroleum-based or additive-added additives general diesel fuel used in compression ignition engines such as tractors, diesel locomotives, construction machinery, inland vessels and generator sets

Note: Other special uses besides this may be negotiated between the supplier and the purchaser.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this standard.

GB 190 Packing symbol of dangerous goods

GB/T 258 Determination of acidity of gasoline, kerosene and diesel fuels

GB/T 260 Petroleum products - Determination of water

GB/T 261 Determination of flash point - Pensky-Martens closed cup method

GB/T 265 Petroleum products - Determination of kinematic viscosity and calculation of dynamic viscosity

GB/T 268 Petroleum products - Determination of carbon residue - Conradson method

GB/T 380 Determination of sulfur content in petroleum products (lamp method)

GB/T 386 Standard test method for cetane number of diesel fuel oil

GB/T 508 Petroleum products. Determination of ash

GB/T 510 Petroleum products - Determination of solidification point

GB/T 511 Petroleum products and additives - Method for determination of mechanical admixtures

3 Product categories

General diesel fuel is divided into six grades in accordance with the freezing point.

4.1 The additives used in general diesel oil shall have no known harmful effects

and shall be used in accordance with the recommended appropriate dosage.

5 Sampling

Sampling is carried out in accordance with GB/T 4756, taking 4 L for inspection and sample retention.

6.1 The equipment used for general diesel fuel that meets the requirements of

Table 1 sold to the user shall clearly indicate the grade and name of the product.

Example. No.0 general diesel fuel.

7 Safety

In accordance with GB 13690, general diesel oil is a flammable liquid. For the danger description and precautionary statements, see Appendix D of GB 30000.7-2013.

8 Implementation of standard

This standard shall be implemented as of the date of promulgation and shall be subject to the gradual introduction of the transition period requirements. For the requirement for sulfur content in Table 1 being not more than 50 mg/kg, the transition period is by June 30, 2017, the requirements that the sulfur content being not more than 350 mg/kg in Table 1 is discarded from July 1, 2017;

Appendix A

(Informative)

Minimum temperature with a risk ratio of 10% in each region

The minimum temperature with a risk ratio of 10% in each region (see Table A.1) was extracted and compiled from the Temperature Data for Petroleum Products Standards which was prepared by the Central Meteorological Administration's Reference Office. The minimum temperature with a monthly risk ratio of 10% indicates that the probability that the minimum temperature in