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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF  
CHINA

# 中华人民共和国国家标准

GB 19147-2013

Replace GB 19147-2013 *Automobile Diesel Fuels (IV)*

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## Automobile Diesel Fuels (V)

车用柴油（V）

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the People's Republic of China

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## Foreword

**Chapters 5, 7 and 9 in this standard are compulsory and the rests are recommendatory.**

This standard was drafted according to those specified in GB/T 1.1-2009.

This standard replaces (GB 19147-2013) *Automobile Diesel Fuels (IV)*.

Compared with GB 19147-2013 *Automobile Diesel Fuels (IV)*, the main technical changes in this standard are as follows:

- Table 3 automotive diesel fuel (V) is added in the technical requirements and test methods (see Table 3);
- 7.1 is modified into "the oiling machine and container which are sold to users and used for automobile diesel fuels meeting the requirements of Table 1, Table 2 and Table 3 shall be indicated with their name, designation and class (III, IV and V) " (see 7.1);
- The implementation of Chapter 9's standard is modified;
- Appendix C is deleted.
- Bibliography is deleted

This standard refers to the EN standard EN590: 2009 *Diesel Requirements and Test Methods for Automotive Fuel*. The main technical changes in this standard are as follows:

- The normative references adopt the corresponding national standards and professional standards of China;
- The technical requirements and test methods in Table 1 and Table 2 are added;
- According to the climate conditions and production status of China, automobile diesel fuels are divided into six designations in accordance with low temperature fluidity;
- The limit requirements and test methods of acidity, condensation point and mechanical admixture content are added;
- The items of total pollutants content and cloud point are deleted;
- The limit requirements of water content, distillation range, viscosity and fatty acid methyl ester content, etc. are modified;
- Chapter 7 and Chapter 8 are added;
- Appendixes A and C are added in this specification.

This Standard was proposed by the National Technical Committee on Petroleum Products and Lubricant of Standardization Administration of China (SAC/TC 280).

This standard is under the technical jurisdiction of the Subcommittee on Petroleum Fuels and Lubricants of National Technical Committee on Petroleum Products and Lubricants of Standardization Administration of China (SAC/TC 280/SC 1).

Drafting organizations of this standard: SINOPEC CORP. Research Institute of Petroleum Processing (RIPP), Research Institute of Petroleum and Petrochemicals under China National Petroleum Corporation, China Automotive Technology & Research Center.

Chief drafting staff of this standard: Ni Bei, Long Jun, Li Wenle, Zhang Jianrong, Zhan Yan, Liu Shuangxi, Huang Yanmin, Lin Rongxing, Chen Xiaohong, Ding Xiaoliang, Gu Huiming, Wang Lin, Song Haiqing, Wang Jianming, Zheng Shujia.

Previous editions of this standard are as follows:

-GB/T 19147-2003;

-GB 19147-2009.

-GB 19147-2013 *Automobile Diesel Fuels (IV)*

## **Automobile Diesel Fuels (V)**

**Warning: If suitable precautionary measures are not taken, the products in this standard may be at risk in the process of producing, transportation, loading and unloading, storage and application, etc. Not all safety problems related with this product are concerned in this standard. Prior to using this standard, users are responsible to establish suitable safety and precautionary measures and ensure the applicability of relevant regulation limits.**

### **1 Scope**

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

This standard is applicable to the automobile diesel fuels used for automobile and made from petroleum or added with additive which can improve the service performance. This standard is not applicable to the automobile diesel fuels with biodiesel fuel as the blending component.

### **2 Normative References**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB 190 Packing Symbol of Dangerous Goods

GB/T 258 Determination of Acidity of Gasoline, Kerosene and Diesel Fuels

GB/T 260 Determination of Water Content in Petroleum Products

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



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