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

GB/T 14762-1993

Replacing GB 14762-2002

**Limits and measurement method for exhaust pollutants from
gasoline engines of heavy-duty vehicles (??, ??)**

(English Translation)

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GB 14762

Foreword

To implement the "People's Republic of China Environmental Protection Law" and "People's Republic of China Air Pollution Prevention Law," to protect the environment, prevent Pollution, the development of this standard.

This standard specifies the first III, IV stage heavy-duty vehicles with gasoline engines with emission limits and measurement methods for automobile exhaust emissions, in order to Technical requirements and test methods for second stage III-board diagnostic (OBD) systems.

This standard specifies the heavy-duty vehicle gasoline engines and vehicle exhaust emission stage III and stage IV type approval requirements, Vehicle production consistency and compliance checks and determination method in the car.

This standard is GB 14762-2002 amendment, compared with GB 14762-2002 main changes are as follows.

- Improve the exhaust pollutant emission control requirements;
- Adjust the standard system will be installed for natural gas or liquefied petroleum gas as a fuel for spark ignition engines and spark ignition cars Engine emission limits and measurement methods of gaseous pollutants into other relevant emission standards;
- Change the measurement methods, test conditions by the heavy gasoline engine transient cycle constituted;
- From the beginning stage III, increased requirements for on-board diagnostic (OBD) system;
- From the beginning stage III, increasing the durability requirements of emission control devices;
- From paragraph IV start, increasing compliance requirements in car/engine;
- Adds new engine type approval procedures and a new car;
- Improve production consistency check and determination methods.

The Standard Appendix A, Appendix B, Appendix C, Appendix D, Appendix E, Appendix F, Annex G and Annex H normative appendix, Appendix I is an informative annex.

"Compression ignition and gas fueled positive ignition engines of automobile exhaust emission limits and measurement methods" (GB 17961-

2005) has been replaced by "vehicles fitted with spark ignition engines and vehicles equipped ignition engine exhaust emission limits and measurement methods" (GB 14762-2002) mounted ignition engines and compression ignition automobile part and gas; Instead of the standard "vehicles fitted with spark ignition engines and Ignition engine exhaust emission limits and measurement methods "(GB 14762-2002) of gasoline and gasoline vehicle.

From the date of implementation of this standard, "vehicle fitted with spark ignition engines and vehicles equipped ignition engine exhaust emission limits and measurement the method "(GB 14762-2002) abolished.

According to relevant laws and regulations, the standard shall be enforceable.

The standard developed by the Ministry of Environmental Protection Science, Technology organization.

This standard was drafted. China Automotive Technology and Research Center.

This standard is approved by the Ministry of Environmental Protection, 2008 March 17.

This standard since July 1, 2009 implementation.

The standard explanation by the Ministry of Environmental Protection.

GB 14762 2008

Heavy vehicle gasoline engine and automobile exhaust pollutants Emission limits and measurement methods (China III, IV stage)

1 Scope

This standard specifies the heavy-duty vehicle gasoline engines exhaust emission limits and measurement methods, on-board diagnostic (OBD) system the technical requirements and test methods.

This standard applies to the design speed greater than 25 km/h for M2, M3, N2 and N3 class and total mass greater than 3 500 kg of category M1 motor Type of vehicle fitted with a petrol engine and vehicle approval, production consistency check and compliance check in car/engine.

If equipped with gasoline engines category M2 vehicle type approval has been carried out according to the provisions of GB 18352.3-2005, the vehicle engine may be type approved in accordance with this standard.

2 Normative references

The standard content of the following documents cited in the articles. For undated references, the effective version applies to this standard.

GB/T 15089-2001 Classification of motor vehicles and trailers GB/T 17692-1999 automotive net engine power test method GB 17930 cars using unleaded petrol GB 18285-2005 ignition engine exhaust emission limits and measurement methods (two-speed idle conditions and simple method) GB 18352.3-2005 light vehicle emission limits and measurement methods (China III, IV stage) System Requirements and test methods for durability GB 20890-2007 heavy vehicle exhaust emission control ISO 16183 heavy duty engines used in the original part of the exhaust gas flow dilution under transient test conditions and measurement methods of gaseous pollutants Methods of measurement systems measure particulate emissions Engine family ISO 16185 for heavy road vehicles automobile exhaust emissions certification ---

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 Gaseous pollutants

Carbon monoxide (CO), hydrocarbons (HC) (hydrocarbons than gasoline assumed to C₁H_{1.85}) and nitrogen oxides (NO_x, NO₂ when using the Scale Shown).

3.2 Test cycle

Engine in transient conditions the test in accordance with the rotational speed and torque testing procedures.

3.3 Engine (or engine family) type-approval

Exhaust emissions on the level of approval of an engine (or engine family) type.

3.4 Gasoline

Gasoline-fueled spark ignition engines.

3.5 Engine Model (model)

The basic characteristics of the engine listed in Appendix A of the same type of engine no difference.