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

GB 11340-2005

**Limits and measurement methods for crankcase pollutants
From heavy-duty vehicles equipped with P.I engines**

装用点燃式发动机重型汽车 曲轴箱污染物排放限值及测量方法

(English Translation)

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Foreword

In order to implement the "Environmental Protection Law of the People's Republic of China" and the "Law of the People's Republic of China on the Prevention and Control of Air Pollution",

prevent and control the environmental pollution caused by the crankcase pollutants from heavy-

duty vehicles equipped with P. I engines, and improve the ambient air quality, this Standard is

formulated.

This Standard specifies the type approval application, type approval test, production conformity

inspection method and emission limits of the crankcase pollutants from Category-M and Category-N vehicles equipped with P.I engines and with a maximum total mass of more than

3,500 kg.

This Standard is a revision on the basis of GB 14761.4-93 Emission Standard for Pollutants from Crankcase of Vehicle Engine and GB 11340-89 Motor Vehicles - Crankcase Emission

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Measurement Methods and Limit, with reference to some technical contents of GB 18352.2-

2001.

The main differences between this Standard and GB 14761.4-93 and GB 11340-89 are as follows.

1 The scope of application is adjusted. The emission requirements for the crankcase

pollutants from light-duty vehicles have been included in GB 18352.2-2001. Hence, the requirements for light-duty vehicles in the previous standard are deleted;

3 The measurement method is modified; the revised measurement method refers to the

stipulations of GB 18352.2-2001;

4 Additional test content is added.

Since the date of issuance of this Standard, the following standards are abolished.

2 GB 11340-89 Motor Vehicles - Crankcase Emission - Measurement Methods and Limit.

Appendix A and Appendix B are standard appendixes.

This Standard was firstly issued in August 1989 and firstly revised in November 1993. This is

the second revision.

In accordance with relevant laws and regulations, this Standard is enforceable.

This Standard was proposed by the Department of Science and Technology Standards of Ministry of Environmental Protection.

The main drafting organization of this Standard. Beijing Automotive Research Institute.

This Standard was approved by the Ministry of Ecology and Environment on April 5, 2005.

This Standard shall be implemented since July 1, 2005.

This Standard shall be interpreted by the Ministry of Ecology and Environment.

Limits and Measurement Methods for Crankcase Pollutants

from Heavy-duty Vehicles Equipped with P. I Engines

1 Scope

This document specifies the type approval application, type approval test method, production

conformity inspection method and emission limits of crankcase pollutants from heavy-duty vehicles equipped with P. I engines.

This document is applicable to heavy-duty vehicles equipped with P. I engines.

The engines to be tested shall include those for which anti-leakage measures have been taken,

but exclude those engines (for example, horizontally opposed engines), in which, even a slight

leakage in the structure will cause abnormal operation.

2 Normative References

The clauses of the following documents become clauses of this Standard through the references

in this Standard. In terms of references without a specified date, the latest version is applicable

to this document.

GB/T 15089 Motor Vehicles - Classification

GB 17930 Unleaded Petrol (gasoline) for Motor Vehicles

GB 18047 Compressed Natural Gas as Vehicle Fuel

GB/T 18297 Performance Test Code for Road Vehicle Engines

GB 19159 Automotive Liquefied Petroleum Gases

3 Terms and Definitions

The following terms and definitions are applicable to this Standard.

3.1 Heavy-duty Vehicle

Heavy-duty vehicle refers to Category-M and Category-N vehicle with a maximum total mass

of more than 3,500 kg. See GB/T 15089 for the definition of Category-M and Category-N

vehicle.

3.2 Curb Weight

Curb weight refers to the mass when the vehicle is no-load, the fuel tank is filled with fuel, the

lubricating oil and cooling water are added to the rated quantity, and the vehicle is equipped with accompanying tools and a spare tire.

3.3 Reference Mass

Reference mass refers to the mass of curb weight plus 100 kg.

3.4 Maximum Total Mass

Maximum total mass refers to the technically allowed maximum mass proposed by the vehicle

manufacturer.

3.5 Engine Crankcase

Engine crankcase refers to the internal or external space of the engine, connected to the oil pan

by internal or external pipes, through which, gas or steam can escape.

3.6 Crankcase Pollutant

Crankcase pollutant refers to the gaseous pollutant emitted from the engine crankcase into the

atmosphere.

4.1.1 Automobile manufacturers must obtain the national type approval of pollutant emission

control performance for the manufacture and sales of automobiles. The application of type approval of crankcase pollutant emission control performance of a vehicle type must be submitted by the automobile manufacturer.

4.2 Approval of Type Approval

If the various technical requirements specified in Chapter 5 are satisfied, the vehicle type will