



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

GB 26133-2010

**Limits and measurement methods for exhaust pollutants from
small spark ignition engines of non-road mobile machinery (??,
??)**

(English Translation)

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Republic of China**

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Foreword

According to "People's Republic of China Environmental Protection Law" and "People's Republic of China Air Pollution Prevention Law," prevention of non-road mobile machinery
With a small spark ignition engine exhaust pollution of the environment, the development of this standard.

This standard specifies the non-road mobile machinery type approval and conformity of production by the first and second phases of small spark-ignition engines

Check the exhaust pollutant emission limits and measurement methods.

This standard mainly technical content GB/T 8190.4 (idt ISO 8178) "Reciprocating internal combustion engines - Exhaust emission measurement - Part 4.

Test cycles for different engine applications, "the operating condition, modify the use of the European Union (EU) Directive 97/68/EC and its amendments 2002/88/EC

"About the law of the Member States to take measures with the internal combustion engine of gaseous pollutants and particulate matter emissions prevention and control of non-road mobile machinery" and the United States

Regulations 40 CFR Part 90 "non-road spark ignition engine emission control" technology content.

This standard is compared with the above standards, the main differences are as follows.

- Engine label on the contents;
- The reference fuel types and technical requirements;
- Implementation time and management requirements;
- Increased production consistency assurance requirements.

The Standard Appendix A, Appendix B, Appendix C, Appendix D, Appendix E Appendix F and normative appendix.

This standard is the first release.

This standard is developed by the Ministry of Environmental Protection Science,

Technology organization.

This standard was drafted. Tianjin Internal Combustion Engine Research Institute, Chinese Academy of Environmental Sciences.

This standard MEP September 10, 2010 for approval.

This standard since March 1, 2011 implementation.

The standard explanation by the Ministry of Environmental Protection.

Non-road mobile machinery with a small spark ignition engine exhaust pollutants

Emission limits and measurement methods (China first and second stages)

1 Scope

This standard specifies the non-road mobile machinery with a small spark ignition engines (hereinafter referred to as "engine") and exhaust emission limits

Measurement methods.

This standard applies to (but not limited to) the following non-road mobile machinery net power less than 19 kW engine type approval and production

Consistency check.

- Lawn mowers;
- Chainsaws;
- generator;
- Pump;
- Brush cutters.

The net power of more than 19 kW but not more than the working volume of the engine 1 L of execution may refer to this standard.

This standard does not apply to the following uses of the engines.

- With an engine for driving the ship;
- Used in underground mining or underground mining equipment engines;
- Emergency rescue equipment engines;
- Recreational vehicles such as. skis, off-road motorcycles and all-terrain vehicles;
- Engines manufactured for export.

2 Normative references

This standard refers to the contents of the following documents or the terms. For undated references, the effective version applies to this standard.

Motor gasoline GB 17930

GB 18047 CNG

GB 18352.3-2005 light vehicle emission limits and measurement methods (China III, IV stage)

GB 19159 autogas

GB/T 6072.1 reciprocating internal combustion engine performance - Part 1. Standard reference conditions, power, fuel consumption and oil consumption standard

Fixed and experimental methods

GB/T 8190.4 Reciprocating internal combustion engines - Exhaust emission measurement - Part 4. Test cycles for different engine applications

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1

Non-road mobile machinery and non-road mobile machinery

Mobile machinery fitted with engines, transportable industrial equipment and not to take for the purpose of road freight or passenger vehicles.

3.2

Engine model engine type

The standard engine is listed in the annex to the basic characteristics of AA no difference between the same type of engine.

3.3

Engine family engine family

Through its design to manufacturing companies with similar emission characteristics of a class of the engine, the system family, all engines must comply with the applicable

With the emission limits. Engine family and the basic characteristics of the engine type within the family system in Annex AB and AC.

3.4

Source Machine parent engine

In accordance with the provisions of 9.1 and annex AA of the elected representatives of engine family type engine emission levels, if the system covers only one family

Engine model, the engine model is the source machine.

3.5

Handheld engine hand-held engine

Shall meet the following requirements at least one engine, with "SH", he said.

- a) during use by the operator to carry;
- b) in the course should have multiple locations, such as the vertical or inclined;
- c) During the first phase of the implementation of this standard 5.3.1 emission limits of the device along with the quality of the engine is not more than 20 kg, the implementation of this standard

5.3.2 Quality During the second phase of emission limit of not more than 21 kg, and at least one of the following characteristics.

- 1) the operator during use should be supporting or carrying the device;
- 2) The operator should support or gestures to control the device during use;
- 3) for a generator or pump engines.

3.6

Non-handheld engine non-hand-held engine

Does not meet the definition of a handheld engine engines with "FSH" representation.

3.7

Net power net power

In accordance with the standard table EB.1 require the installation of the engine unit and accessories (air-cooled engine mounted directly on the crankshaft of the cooling fan can protect

Left), from the end of the crankshaft or equivalent component measured power, the engine operating conditions and fuel in accordance with these standards.

3.8

Rated speed rated speed

- a) Manufacturing companies under full load operating conditions of the engine for the handheld most common predetermined engine speed;