

CCS Z 60



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

GB 20951-2020

Replacing GB 20951-2007

Emission standard of air pollutant for gasoline transport

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9500 >V>=5500 <=0.38

5500 >V>=3800 <=0.50

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Foreword

To implement the Environmental Protection Law of the People's Republic of China and the Air Pollution Prevention and Control Law of the People's Republic of China to prevent and control environmental pollution,

To improve environmental quality, develop this standard.

This standard specifies the requirements for the control, monitoring and supervision of oil and gas emissions during the transportation of oil products.

This standard was first published in 2007, and this is the first revision. The main contents of this revision are.

- Adjusted the scope of application to crude oil, gasoline (including alcoholic gasoline, aviation gasoline), aviation kerosene, naphtha and other oil products

Loss process

- Renamed the "Emission Standard of Air Pollutants for Gasoline Transportation" to "Emission Standard for Air Pollutants for Oil Transportation";

- Added oil tanker control requirements.

The implementation of railway tank cars, existing tank cars and newly put into service tankers (150 gross tonnage and above) will be implemented on April 1, 2021.new

The production, import, sale and registration of tank cars will be implemented on July 1, 2021.Existing oil tankers of 8,000 gross tonnage and above

It will be implemented after January 1, 2024.

This standard is the basic requirement for the control of atmospheric pollutants during the transportation of oil products. The provincial people's government has not made provisions on this standard

For projects, local pollutant discharge standards can be formulated; for projects that have been stipulated in this standard, local pollution standards that are stricter than this standard can be formulated

Emissions standards.

Appendix A of this standard is a normative appendix.

Appendix B of this standard is an informative appendix.

This standard was formulated by the Department of Atmospheric Environment and the Department of Regulations and Standards of the Ministry of Ecology and Environment.

This standard was prepared by. Beijing Academy of Environmental Sciences, Chinese Academy of Environmental Sciences, Hanyang Special Vehicle Research Institute.

This standard was approved by the Ministry of Ecology and Environment on December 21, 2020.

This standard will be implemented on April 1, 2021.

From the date of publication of this standard, information can be disclosed in accordance with this standard.

This standard is interpreted by the Ministry of Ecology and Environment.

Emission standard of air pollutants for oil transportation

1 Scope of application

This standard specifies the requirements for the control, monitoring and supervision of oil and gas emissions during the transportation of oil products.

This standard applies to the management of oil and gas emissions from existing oil transportation vehicles, as well as newly produced, imported, sold and newly put into use oil

The registration of transportation vehicles and the management of oil and gas emissions

after use.

2 Normative references

This standard quotes the following documents or their clauses. For dated reference documents, only the dated version applies to this standard

quasi. For undated references, the latest version (including all amendments) applies to this standard.

GB/T 5600 General Technical Requirements for Railway Freight Cars

HJ 733 Leakage and open liquid level emission of volatile organic compounds detection technology guide

HJ 819 General Rules of Technical Guidelines for Self-monitoring of Pollutant Discharge Units

"Environmental Monitoring Management Measures" (State Environmental Protection Administration Order No. 39)

"Measures for the Disclosure of Environmental Information of Enterprises and Institutions" (Order No. 31 of the Ministry of Environmental Protection)

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1

Petroleum

A collective term for crude oil, gasoline (including alcoholic gasoline and aviation gasoline), aviation kerosene, and naphtha.

Note. It also includes circulating oil, component oil, condensate oil, light oil, etc., stored in oil storage depots with similar volatile characteristics to the aforementioned oil products.

3.2

Ethanol or methanol gasoline

Gasoline containing 10% or less ethanol fuel (E10) or gasoline containing 30% or less methanol fuel (M30, M15, etc.).

3.3

Road and rail tankers

Automobile tank cars and railway tank cars specially used to transport oil products.

3.4

Marine tanker

Ships dedicated to the transportation of oil products.

3.5

Oil tank compartment

The tank or ship has a liquid-tight separation space.

3.6

Volatile organic compounds (VOCs)

Organic compounds that participate in atmospheric photochemical reactions, or organic compounds determined in accordance with relevant regulations.

3.7

Oil and gas vapor

For VOCs generated during the transportation of oil products, this standard adopts non-methane total hydrocarbons as oil and gas emission control items.

3.8

Vapor sealing point of transportation facility

Automobile tanker vapor recovery coupling valve, tanker manhole cover, tanker vapor recovery pipeline flange blind plate.

3.9

Leakage detection value

Using the prescribed monitoring method, the detection instrument detects the net value of the VOCs concentration of the sealed point after deducting the environmental background value, and the carbon

Mole fraction representation.

3.10

Bottom loading

The oil delivery method is the airtight connection between the filling crane tube and the bottom interface of the tanker.

3.11

Vapor recovery system for tank truck