

ICS 45.060.10

CCS S 42



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

GB/T 33192-2026

Replacing GB/T 33192-2016

Locomotive diesel engines - General technical specification

机车柴油机 通用技术条件

Issued on: January 28, 2026

Implemented on: March 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Technical Requirements
 - 4.1 General Requirements
- 5 Test methods and inspection rules
- 6 Overspeed protection

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document supersedes GB/T 33192-2016 "General Technical Conditions for Diesel Engines for Internal Combustion Vehicles" and is consistent with GB/T 33192-2016. Compared to previous versions, aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) Increased requirements for fire resistance and non-metallic materials in diesel engines (see 4.1.4 and 4.1.5);
- b) Major technical specifications and parameters have been changed (see 4.2.1, 3.2.1 in the 2016 version);
- c) Performance curves or technical parameter requirements have been changed (see 4.3, 2016 version 3.3);
- d) The requirement to measure the highest burst pressure of each cylinder has been removed (see 3.4.3 in the 2016 version);
- e) The requirements for unspecified dimensions and geometric tolerances of diesel engines have been removed (see 3.4.7 in the 2016 edition);
- f) The standard for the diesel fuel used has been changed (see 4.5.1,

3.5.1 of the.2016 edition);

g) Added requirements for electronic fuel injection systems (see 4.5.2);

1 Scope

GB/T 33192-2026 is the Chinese national standard covering the diesel engine of a locomotive - the ratings and the duty cycle it works to, the fuel consumption and the emissions, the starting and load acceptance, the durability between overhauls and the tests before acceptance. It replaces GB/T 33192-2016 and has been in force since 1 March 2026, under the National Railway Administration. It was issued on 28 January 2026 and has been in force since 1 March 2026, replacing GB/T 33192-2016. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the technical requirements, test methods, and inspection rules for diesel engines used in railway locomotive traction (hereinafter referred to as "diesel engines"). Marking, packaging, transportation and storage. This document applies to diesel engines in newly manufactured internal combustion locomotives; other diesel engines in internal combustion engines should refer to this document for implementation.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 191 Packaging and Storage Graphic Symbols

GB/T 3181-2008 Standard for Paint Film Color

GB/T 3367.1 Glossary of Internal Combustion Locomotives Part

3 Terms and Definitions

The terms and definitions defined in GB/T 3367.1 and GB/T 3367.2 apply to this document.

4.1 General Requirements

4.1.1 Diesel engine design should follow the principles of serialization, standardization, modularization, and lightweighting; product drawings and technical documents should be complete.

6 Overspeed protection

GB/T 6388 Transport Packaging Receipt and Delivery Marks

GB/T 15371 Evaluation Method for Torsional Vibration of Crankshaft System in Reciprocating Internal Combustion Engines

GB 19147 Diesel fuel for vehicles

GB 45841 Emission Limits and Measurement Methods for Exhaust Pollutants from Railway Diesel Locomotives and Their Engines (China Phase I) TB/T 2745 Certification Tests for Diesel Engines for Power Plants TB/T 2746.2 Test methods for locomotive diesel engines - Part

2.Factory tests TB/T 3098 Implementation Rules for Certification Tests of Diesel Engines for Railway Power Units TB/T 3138 Flame Retardant Technical Requirements for Materials Used in Locomotives and Rolling Stock TB/T 3139 Limits of Hazardous Substances in Non-metallic Materials and Indoor Air of Locomotives and Rolling Stock