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Reliability Test Methods for Motor Vehicle Engines
汽车发动机可靠性试验方法

(English Translation)

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Reliability Test Methods for Motor Vehicle Engines

1 SCOPE

This document specifies the general reliability test methods and the reliability evaluation methods with respect to the bench test of complete engines for motor vehicles.

This document is applicable to the engines (either reciprocating or rotor, but excluding free piston type) for motor vehicles of Categories M and N.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB/T 1883.1 Reciprocating internal combustion engines-Vocabulary-Part 1: Terms for engine design and operation

GB/T 15089 Classification of power-driven vehicles and trailers

GB/T 17754 Tribology terminology

GB/T 18297 Performance Test code for road vehicle engines

3 TERMS AND DEFINITIONS

For the purpose of this document, the terms and definitions established in GB/T 15089, GB/T 1883.1, GB/T 17754 and GB/T 18297 as well as the following apply.

3.1 rated speed

engine speed under the rated power

Note: Rated power is specified by the manufacturer and the rated speed is generally lower than the speed at maximum power at full load.

3.2 speed of maximum net torque, n_M

speed at which the engine, with full set of auxiliaries fitted for the operation of vehicle as specified in GB/T 18297, outputs the maximum net torque



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