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

GB/T 38146.2-2019

**China automotive test cycle - Part 2: Heavy-duty commercial
vehicles**

中国汽车行驶工况 第2部分：重型商用车辆

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Foreword

GB/T 38146 "China automotive test cycle" is divided into 3 parts. - Part

1 Scope

Part 2 of the China Automotive Test Cycle, covering heavy-duty commercial vehicles. It specifies the terms and definitions and the construction of the cycle, with a normative annex on the source data. Heavy vehicles needed their own cycle for reasons beyond size. A truck's duty depends on what it is: a city refuse vehicle, a regional distribution truck, a long-haul tractor and a coach have almost nothing in common in their speed profiles, their load factors or their proportion of idling, and a single cycle would misrepresent all of them. The heavy-duty cycle is therefore built from separate profiles for the vehicle categories, derived like the light-duty one from logged Chinese operation. It matters more than the passenger car cycle in one respect: heavy vehicles are a small fraction of the fleet and a large fraction of the fuel burned and the nitrogen oxides emitted, so the accuracy of their figures has a disproportionate effect on policy.

This Part of GB/T 38146 specifies the construction of the test cycle of heavy-duty commercial vehicles. This Part applies to commercial vehicles with a maximum design total mass greater than 3500 kg.

2 Normative references

The following documents are indispensable for the application of this document. For the dated references, only the editions with the dates indicated are applicable to this document. For the undated references, the latest edition (including all the amendments) are applicable to this document.

GB 1589-2016 Limits of dimensions, axle load and masses for motor vehicles, trailers and combination vehicles

GB/T 3730.1 Motor vehicles and trailers - Types - Terms and definitions

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

GB/T 27840-2011 Fuel consumption test methods for heavy-duty commercial vehicles

GB/T 38146.1-2019 China automotive test cycle - Part

3 Terms and definitions

The terms and definitions defined in GB/T 3730.1, GB/T 15089, GB/T 27840- 2011, GB 1589-2016, and GB/T 38146.1-2019 and the following ones apply to this document.

3.1 China automotive test cycle The time-speed curve which describes the driving characteristics of a particular vehicle (such as a passenger car, a commercial vehicle, a city bus, etc.) in a Chinese traffic environment.

3.2 China heavy-duty commercial vehicle test cycle; CHTC The general term for China automotive test cycle used by commercial vehicles with a maximum design total mass greater than 3500 kg.

3.3 China heavy-duty commercial vehicle test cycle for bus and coach The general term for China automotive test cycle used by bus and coach with a maximum design total mass greater than 3500 kg, including China heavy-duty commercial vehicle test cycle for city bus and coach (CHTC-B) and China heavy-duty commercial vehicle test cycle for common bus and coach (CHTC- C).

3.5 China heavy-duty commercial vehicle test cycle for dumper; CHTC-D China automotive test cycle used by dumper with a maximum design total mass greater than 3500 kg.

3.6 China heavy-duty commercial vehicle test cycle for tractor-trailer; CHTC-TT China automotive test cycle used by tractor-trailer with a maximum design total mass greater than 3500 kg.

4 Cycle construction

4.1 Overview China heavy-duty commercial vehicle test cycle includes.

4.2 China heavy-duty commercial vehicle test cycle for city bus and coach China heavy-duty commercial vehicle test cycle for city bus and coach (CHTC- B) includes 2 speed ranges. low-speed (part 1) and high-speed (part 2).

4.3 China heavy-duty commercial vehicle test cycle for common bus and coach

4.6 China heavy-duty commercial vehicle test cycle for dumper China heavy-duty commercial vehicle test cycle for dumper (CHTC-D) includes 2 speed ranges. low-speed (part 1) and high-speed (part 2).

4.7 China heavy-duty commercial vehicle test cycle for tractor-trailer China heavy-duty

commercial vehicle test cycle for tractor-trailer (CHTC-TT) includes 2 speed ranges.
low-speed (part 1) and high-speed (part 2).

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