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T 04



National Standard of the People's Republic of China

GB/T 19754-2015

Replace 19754-2005

**Test methods for energy consumption of
heavy-duty hybrid electric vehicles**

重型混合动力电动汽车能量消耗量试验方法

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and Quarantine of the People's Republic of China

Standardization Administration of the People's Republic of
China

Foreword

This Standard is drafted according to the regulations specified in GB/T 1.1-2009.

The Standard replaces GB/T 19754-2005 *Test methods for energy consumption of heavy-duty hybrid electric vehicles*. In addition to editorial modification, the main technical changes are as follows compared with GB/T 19754-2005:

- Measurement and assessment methods for energy consumption of non-plugin hybrid electric vehicles are added;
- Conversion methods for power consumption and fuel consumption are changed greatly;
- NEC calculation method is greatly changed and calculation method of NEC of super capacitor is added;
- Test cycle is changed, and C-WTVC driving cycle in GB/T 27840-2011 is taken as the test cycle of hybrid commercial vehicles and that of city bus in QC/T 759-2006 (expressway);
- There are important changes in test procedures and result assessment

This Standard is proposed by Ministry of Industry and Information Technology of the People's Republic of China.

This Standard is under the jurisdiction of National Technical Committee of Auto Standardization (SAC/TC 114).

The responsible drafting organizations of this Standard are: Dongfeng Motor Corporation, China Automotive Technology & Research Center, China FAW Group Corporation R & D Center and Hunan CSR Times Electric Vehicle Co., Ltd.

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This Standard replaces the following historical editions issued:

- GB/T 19754-2005.

Test methods for energy consumption of heavy-duty hybrid electric vehicles

1 Scope

The Standard specifies the methods for energy consumption test of heavy-duty hybrid electric vehicles on the chassis dynamometer or road. The Standard applies to hybrid electric vehicles with maximum total mass of more than 3,500kg.

2 Normative references

The following documents are indispensable for the application of this Document. For the dated documents so quoted, only the dated editions shall be applicable to this document. For the undated documents so quoted, the latest editions (including all the modifications) shall be applicable to this document.

GB/T 12534 Motor vehicles-General rules of road test method

GB 18352.3-005 Limits and measurement methods for emissions from light-duty vehicles (Chinese Stage III, IV)

GB/T 18386 Electric vehicles-Reference energy consumption and range-Test procedures

GB/T 19596 Terms of electric vehicles

GB/T 19753 Test methods for energy consumption of light-duty hybrid electric vehicles

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

QC/T 741 Ultracapacitors for vehicles

QC/T 759-2006 City Driving Cycle for Vehicle Testing

QC/T 837 Hybrid electric vehicles

3 Terms and definitions

Those defined in GB/T 19596, QC/T741, QC/T837, GB/T 19753, GB/T 27840 and the following terms and definitions shall apply to this Standard.

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