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Technical specification of fuel saving products for automobiles

汽车节油产品使用技术条件

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Foreword

This Standard was proposed by Ministry of Transport of the People's Republic of China.

This Standard shall be under the jurisdiction of National Standardization Technical Committee on Automotive Maintenance (SAC/TC 247).

The drafting organization of this Standard: Research Institute of Highway Ministry of Transport.

Main drafters of this Standard: Feng Guiqin, Liu Li, Jiao Jian, He Yong, Wang Wei, Wang Lujiang, Han Guoqing, Cai Fengtian, and Zhang Hongwei.

Technical specification of fuel saving products for automobiles

1 Scope

This Standard specifies the improvement of automobile or engine's economy, dynamic and emission performance after fuel saving products are used, as well as physical and chemical properties of additives, electrical performance of electronic fuel saving products for automobiles and other technical specifications.

This Standard is applicable to fuel saving products for automobiles which take fuel oil as driving force.

2 Normative references

The following standards contain the provisions which, through reference in this Standard, constitute the provisions of this Standard. For dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard. However, the parties who enter into agreement based on this Standard are encouraged to investigate whether the latest versions of these documents are applicable. For undated reference documents, the latest versions apply to this Standard.

GB/T 260 Petroleum products - Determination of water

GB/T 265 Petroleum products - Determination of kinematic viscosity and calculation of dynamic viscosity

GB/T 511 Petroleum products and additives - Determination of mechanical impurities - Gravimetric method

GB/T 3142 Lubricants: Determination of load carrying capacity (four balls method)

GB/T 3535 Petroleum products - Determination of pour point (GB/T 3535-2006, ISO 3016:1994, MOD)

GB/T 3536 Petroleum products - Determination of flash and fire points - Cleveland open cup method (GB/T 3536-2008, ISO 2592:2000, MOD)

GB/T 5096 Petroleum products - Corrosiveness to copper - Copper strip test (GB/T 5096-1985, eqv ASTM D130:1985)

GB/T 6538 Determination of apparent viscosity of engine oils using the cold-cranking simulator (GB/T 6538-2000, eqv ASTM D5293:1998)

GB/T 8020 Gasoline; Determination of lead content; Atomic absorption spectrometry (GB/T 8020-1987, eqv ASTM D32371:1979)

GB/T 14951 Measurement method of fuel saving technology for automobiles

GB 17930 Gasoline for motor vehicles

GB 19147 Automobile diesel fuels

SH/T 0711 Standard test method for manganese in gasoline by atomic absorption spectroscopy

SH/T 0712 Standard test method for iron in gasoline by atomic absorption spectroscopy

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 fuel saving products for automobiles

Products that can reduce vehicle fuel consumption and do not adversely affect other performances of automobiles.

3.2 rate of fuel saving

The proportion of reduced fuel consumption after fuel saving products for automobiles are used, which can be calculated by:

$$\text{Rate of fuel saving} = \frac{\text{Fuel consumption before fuel saving products used} - \text{Fuel consumption after fuel saving products used}}{Fuel\ consumption\ bedore\ fuel\ saving\ products\ used} \times 100\% \quad \ldots\ldots (1)$$

3.3 rate of pollution controlling

The proportion of reduced automobile exhaust pollutants after fuel saving products for automobiles are used, which can be calculated by:

$$\text{Purification rate} = \frac{\text{Pollutant measurement value before fuel saving products used} - \text{Pollutant measurement value after fuel saving products used}}{Pollutant\ measurement\ value\ bedore\ fuel\ saving\ products\ used} \times 100\% \quad \ldots\ldots (2)$$

3.4 rate of power contrasting

4.6 Technical specifications for electrical performance of electronic fuel saving products for automobiles

Electronic fuel saving products for automobiles shall also meet technical specifications for electrical performance stipulated by automobile electronic standard.

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