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

GB/T 7631.17-2014

Replacing GB/T 7631.17-2003

**Lubricants, industrial oils and related products (class L) --
Classification -- Part 17: Family E (Internal combustion engine
oils)**

润滑剂、工业用油和相关产品（L类）的分类 第17部分：E组(内燃机油)
(English Translation)

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Foreword

GB/T 7631 "Lubricants, industrial oils and related products (class L) Classification" is currently divided into the following sections.

--- Part 1. General packet;

--- Part 2. H (Hydraulic systems);

Part --- Chapter 4. F group (spindle, bearings and associated clutches);

Part --- Article 5. M (Metalworking);

--- Part 6. R (Temporary protection against corrosion);

Part --- Article 7. C group (gear);

--- Part 8. X group (grease);

Part --- Article 9. D (Compressors);

--- Part 10. T group (turbine);

Part --- Article 11. G group (rail);

--- Part 12. Q group (organic heat);

Part --- Article 13. A group (system-wide loss);

--- Part 14. U group (heat treatment);

--- Part 15. N group (insulating liquid);

Part --- Article 16. P (Pneumatic tools);

Part --- Article 17. E (Internal combustion engine oils).

This section GB/T 7631 Part 19.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 7631.17-2003 "Lubricants, industrial oils and related products (L

class) classification - Part 17. E group (Engine oil), "compared with the GB/T 7631.17-2003 main technical changes are as follows.

- Modify the "lubricity" term (see 31, 2003 version 3.1.);
- Increased "coefficient of friction" and "lubricant friction characteristics" terms (see 3.7,3.8);
- Added "gasoline four-stroke motorcycle engine oil" variety (see Table 1);
- Increased "ISO 6743-15:2007 motorcycle provided with a four-stroke gasoline engine oil background and supplementary information relating to the classification" (see Appendix B).

This section uses redrafted Law Amendment uses ISO 6743-15:2007 (E) "Lubricants, industrial oils and related products (L class) division Part 15 Class. E (Internal combustion engine oils) "(in English).

This part of ISO 6743-15:2007 compared to the technical differences and the following reasons.

--- On "Normative References" section of this technical difference has been adjusted to accommodate our technical conditions, adjustment in the case of a concentrated reflection of "2 Normative references", the specific adjustments are as follows.

- increase cited GB/T 28772, because the classification criteria apply to this section (see Chapter 2);
- increase cited GB/T 14906, because the classification criteria apply to this section (see Chapter 2);
- increase cited SAEJ300, because the classification criteria apply to this section (see Chapter 2);
- Remove the "ISO 3448 Industrial liquid lubricants - ISO viscosity classification" because of the classification criteria does not apply to this section.

--- The "naming each category can be supplemented in accordance with ISO 3448 digital lubricant viscosity grades suggested." Changed to "every A category can be named according to GB/T 28772 supplementary quality class to be in accordance with GB/T 14906 or fill SAEJ300 Filling viscosity grade. "(See 4.2).

This part of the National Standardization Technical Committee on products and lubricant oil (SAC/TC280) proposed.

This part of the National Standardization Technical Committee on Petroleum Products Lubricants oil and lubricants and fuels Technical Committee (SAC/TC280 /SC1) centralized.

This section drafted by. China Petroleum & Chemical Corporation Research Institute of Petroleum.

1 Scope

GB/T 7631 provisions of this section for a detailed breakdown of the internal combustion engine following an engine lubricating oil.

This section relates to lubricating oil include gasoline two-stroke motorcycle engine oil and gasoline four-stroke motorcycle engine oil, wherein.

Two-stroke motorcycle engine oil suitable for gasoline crankcase scavenging system has two-stroke spark ignition gasoline engine, can be used for transportation, Leisure and related equipment for other purposes, such as. motorcycle, sleigh and chain saws lubrication.

Four-stroke motorcycle engine oil suitable for gasoline have a common sump four-stroke spark ignition gasoline engines for motorcycles, Mopeds, all-terrain vehicles (ATVS) and related equipment, the common sump lubricant stored both lubricate the engine, and also lubricate moving Power transmission, starters and transmission (box).

Related outboard and marine engines applications see Appendix A of A.2.

This section should be consistent with GB/T 7631.1 linked understand.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 14906 engine oil viscosity classification GB/T 28772 Engine Oil Classification
SAEJ300 engine oil viscosity classification

3 Terms and Definitions

The following terms and definitions apply to this document.

Lubricity

In addition to pure performance viscosity outside it has the ability to reduce wear and friction.

Detergency Engine oil can prevent and/or removal of surface deposits of the engine, keep the engine clean internal parts capacity.

Note: deposits such as. varnish or coke, produced in the engine oil and fuel.

Smoke exhaustsmoke

Visible Emissions from engine oil and/or fuel unburned or partially burned to produce solid

particles and aerosols composed through Through the exhaust pipe.