



SLOVENSKI STANDARD
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**Maziva, industrijska olja in sorodni proizvodi (skupina L) - Klasifikacija - 15. del:
Podskupina E (olja za motorje z notranjim zgorevanjem)**

Lubricants, industrial oils and related products (class L) - Classification - Part 15: Family
E (Internal combustion engine oils)

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**Lubricants, industrial oils and related
products (class L) — Classification —
Part 15:
Family E (Internal combustion engine oils)**

*Lubrifiants, huiles industrielles et produits connexes (classe L) —
Classification —*

Partie 15: Famille E (Huiles pour moteurs à combustion interne)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6743-15 was prepared by Technical Committee ISO/TC 28, *Petroleum products and lubricants*, Subcommittee SC 4, *Classifications and specifications*.

This second edition cancels and replaces the first edition (ISO 6743-15:2000), Clause 4, Table 5 and Annexes A and B of which have been technically revised.

ISO 6743 consists of the following parts, under the general title *Lubricants, industrial oils and related products (class L)* — *Classification*:

- Part 1: Family A (Total loss systems)
- Part 2: Family F (Spindle bearings, bearings and associated clutches)
- Part 3: Family D (Compressors)
- Part 4: Family H (Hydraulic systems)
- Part 5: Family T (Turbines)
- Part 6: Family C (Gears)
- Part 7: Family M (Metalworking)
- Part 8: Family R (Temporary protection against corrosion)
- Part 9: Family X (Greases)
- Part 10: Family Y (Miscellaneous)
- Part 11: Family P (Pneumatic tools)
- Part 12: Family Q (Heat transfer fluids)
- Part 13: Family G (Slideways)

- *Part 14: Family U (Heat treatment)*
- *Part 15: Family E (Internal combustion engine oils)*
- *Part 99: General*

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Introduction

This part of ISO 6743 (second edition) describes categories pertaining to both two-stroke cycle and four-stroke cycle gasoline engine oils intended for use in “land-based small engines”. This term, “land-based small engines”, is a common industry description intended to separate the types of engines described in this second edition from the generally larger, two-stroke and four-stroke engines utilized in passenger cars, light-, medium- and heavy-duty trucks and other industrial equipment. The new four-stroke cycle engine oil categories added in this second edition primarily describe the unique performance requirements for engine oils used in motorcycles, motor scooters, all-terrain vehicles (ATVs) and related equipment. Although specification categories for larger four-stroke cycle engine oils, such as those used in passenger cars and light-, medium- and heavy-duty trucks, are envisioned for future inclusion in this part of ISO 6743, the standard categories for those engine oils are not yet developed and do not appear in this second edition.

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Lubricants, industrial oils and related products (class L) — Classification —

Part 15:

Family E (Internal combustion engine oils)

1 Scope

This part of ISO 6743 establishes the detailed classification, in tabular form, of engine lubricating oils for use in the following internal combustion engines:

- a) two-stroke cycle, spark-ignition gasoline engines that employ a crankcase scavenging system and are used in transportation, leisure and utility applications, such as motorcycles, snowmobiles, chainsaws (hereinafter referred to as two-stroke engine oils);
- b) four-stroke cycle, spark-ignition gasoline engines that employ a common sump containing the lubricant for both the engine and the drive train/starter/transmission of motorcycles, motor scooters, all-terrain vehicles (ATVs) and related equipment (hereinafter referred to as four-stroke engine oils).

Outboard motor and marine engine applications are described in Annex A.

It is expected that this part of ISO 6743 be read in conjunction with ISO 6743-99^[1].

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3448, *Industrial liquid lubricants — ISO viscosity classification*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

lubricity

ability of a product to reduce wear and friction, other than by its purely viscous properties

3.2

detergency

property of an engine oil to prevent and/or remove deposits from the surfaces of an engine resulting in a degree of cleanliness of the interior engine parts with respect to deposits, such as varnish and carbon, originating from the engine oil or the fuel