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Diesel engines — Fuel injection pumps — Tapers for shaft ends and hubs

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Foreword

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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 34, *Propulsion, powertrain and powertrain fluids*.

This fifth edition cancels and replaces the fourth edition (ISO 6519:2015), which has been technically revised.

The main changes are as follows:

- a specification of shaft end was added;
- technical description errors were corrected.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

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the fuel inject of the pump sha. To install the fuel injection pump or the high-pressure supply pump to the engine it is recommended to This document is a previous general ded by tills

Diesel engines — Fuel injection pumps — Tapers for shaft ends and hubs

1 Scope

This document specifies the dimensions of tapered shaft ends and hubs of fuel injection pumps and high-pressure supply pumps for diesel (compression-ignition) engines. The specified shaft ends and hubs can be used with or without keys.

NOTE The specified shaft ends and hubs can also be used for other applications where no specific standards exist.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at https://www.electropedia.org/

4 Dimensions and tolerances

4.1 General

To ensure satisfactory operation of the taper drive, it is necessary for manufacturers to provide such cone angle tolerances that the contact between the cones of driven shaft and that of drive hub commences at the major diameter.

4.2 Shaft ends with taper

Shaft ends shall be as shown in <u>Figure 1</u> and <u>Table 1</u> or <u>Figure 2</u> and <u>Table 2</u>. The shaft ends taper and thread (<u>Figure 1</u>) may be made optionally according to type 1 or 2. However, it shall be possible to screw the go-gauge for the thread up to the XX line for both these types.