

Road vehicles — Fuel injection pump testing —

Part 3: Application and test procedures

ICS 43.060.40

National foreword

This British Standard reproduces verbatim ISO 4008-3:1987 + A1:2002 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee MCE/22, Engines for road vehicles, which has the responsibility to:

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Summary of pages

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Road vehicles — Fuel injection pump testing —

Part 3: **Application and test procedures**

Véhicules routiers — Essais des pompes d'injection à gazole —

Partie 3: Application et modes opératoires d'essai

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 4008-3 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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Part 3: Application and test procedures

0 Introduction

This International Standard aims to achieve correct setting and adjustment of fuel injection pumps for the subject types of compression ignition engines by providing standardized conditions for testing.

Part 3 of ISO 4008 is a document for use in the workshop. It forms the complement to the injection pump test schedules and coordinates the detailed technical requirements of parts 1 and 2 and further referenced standards (see clause 3) with the procedural instructions necessary to apply and validate this International Standard as a whole.

1 Scope

This part of ISO 4008 defines conditions, in addition to those contained in parts 1 and 2, which are mandatory to the performance of fuel injection pump tests in conformity with the International Standard as a whole. Reference is also made to non-mandatory but desirable conditions.

2 Field of application

The conditions of this part of ISO 4008 apply to tests performed in accordance with fuel injection pump manufacturers', engine manufacturers' or other admissible test schedules which refer to ISO 4008 conditions of test.

This part of ISO 4008 is deemed to form an integral part of all such admissible test schedules.

3 References

ISO 4008-1, *Road vehicles — Fuel injection pump testing — Part 1: Dynamic conditions.*

ISO 4008-2, *Road vehicles — Fuel injection pump testing — Part 2: Static conditions.*

ISO 4010, *Road vehicles — Calibrating nozzle, delay pintle type.*

ISO 4020-1, *Road vehicles — Fuel filters for automotive compression ignition engines — Part 1: Test methods.*

ISO 4093, *Road vehicles — Fuel injection Pumps — High pressure pipes for testing.*

ISO 4113, *Road vehicles — Calibration fluid for diesel injection equipment.*

ISO 7440-1, *Road vehicles — Fuel injection equipment testing — Part 1: Calibrating nozzle and holder assemblies.*

ISO 7440-2, *Road vehicles — Fuel injection equipment testing — Part 2: Orifice plate flow measurement.*

ISO 8984-1, *Diesel engines — Testing of fuel injectors — Part 1: Hand-lever operated testing and setting apparatus.*

ISO 8984-2, *Diesel engines — Testing of fuel injectors — Part 2: Testing methods.*

ISO 7876-2, *Fuel injection equipment — Vocabulary — Part 2: Fuel injectors.*

ISO 7876-4, *Fuel injection equipment — Vocabulary — Part 4: High-pressure pipes and end-connections.*

ISO 14681, *Diesel engines — Fuel injection pump testing — Calibrating fuel injectors.*

4 Terminology

Many general terms, as well as those particular to this International Standard, are included in a list of definitions in annex F. This annex does not form an integral part of this International Standard.

5 Validity

5.1 Documentation

5.1.1 Parameters of a valid ISO test

A valid ISO test (sec 5.2.2) shall include the Parameters listed in table 1.