
**Road vehicles — Engine families for
certification of heavy-duty vehicles —
Exhaust emissions**

*Véhicules routiers — Familles de moteurs pour homologation des
véhicules lourds — Émissions de gaz d'échappement*

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Reference number
ISO 16185:2000(E)

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Printed in Switzerland

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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 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 16185 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 5, *Engine tests*.

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Introduction

This International Standard aims to define the criteria making it possible to group engines of road vehicles in order to reduce the number of type approval tests.

This concept already exists in certain regulations (United Nations, United States of America, European Union). ISO 8178-7 deals with this subject within the broader framework of those engines designed originally for non-road applications.

ISO was requested within the framework of the United Nations¹⁾ to work on an International Standard that would adapt these concepts to heavy-duty road vehicles. This work is considered as a step towards a world-wide heavy-duty certification (WHDC) procedure.

In the case of regulations based on emission tests, the family concept as described in this International Standard makes it possible to minimize the number of these tests (some of them may be very long) by carrying them out only on a parent engine.

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1) UN/ECE/GRPE: United Nations/Economic Commission for Europe/Group of Rapporteurs on Pollution and Energy.