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Forestry machinery — Portable chain-saws — Determination of handle strength

Matériel forestier — Scies à chaîne portatives — Détermination de la solidité des poignées

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC *23*, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 17, *Manually portable forest machinery*.

This third edition cancels and replaces the second edition (ISO 7915:1991), which has been technically revised.

The main changes compared to the previous edition are as follows:

— the scope has been updated to be inclusive of chain-saws regardless of power source and inclusive of chain-saws for tree service;

— means of mounting the chain-saw, for a more secure and repeatable test, has been defined;

— directional application of test loads clarified;

— minimum test loads for chain-saws for tree service added to Table 1;

— tolerances applied to all measurable;

— new figures have been included to show directions of load applications for chain-saws for forest service and chain-saws for tree service.

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.

Forestry machinery — Portable chain-saws — Determination of handle strength

1 Scope

This document specifies a test method and strength requirements for the handles of portable hand-held chain-saws for use primarily in forestry and tree-service.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 6531, *Machinery for forestry — Portable chain-saws — Vocabulary*

ISO 6533, *Forestry machinery — Portable chain-saw front hand-guard — Dimensions and clearances*

ISO 7914, *Forestry machinery — Portable chain-saws — Minimum handle clearance and sizes*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6531 apply.

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

4 Test procedure

4.1 Test temperature

The test temperature shall be (20 ± 5) °C.

4.2 Test performance

The test shall be performed with the test loads specified in 4.3. The load shall be gradually applied until the test load is achieved in such a manner that there is no impact damage. When the load specified in 4.3 is obtained, hold the load for a duration of (4 ± 1) s. The test shall be completed within 1 min.

4.3 Load application

4.3.1 General

The chain-saw handles shall be subjected to static loads as specified in Table 1, separately applied at both handles grip, in each of the six directions illustrated in Figure 1 or Figure 2 and as described in 4.3.3.