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Portable chain-saws — Chain catcher — Dimensions and mechanical strength

Scies à chaîne portatives — Enrouleur de chaîne — Dimensions et résistance mécanique

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Foreword

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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 second edition cancels and replaces the first edition (ISO 10726:1992) of which it constitutes a minor revision.

The changes compared to the previous edition are as follows.

— Figure 2 did not have a clear reference in respect of the fixed saw position. The guide bar centreline has been added to aid clarification.

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Portable chain-saws — Chain catcher — Dimensions and mechanical strength

1 Scope

This document specifies the mechanical strength and dimension requirements, and the corresponding test method for the chain catcher of chain-saws.

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 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 Dimensions

The chain catcher shall be positioned as far to the front of the saw body as practicable and shall extend at least 5 mm from the centre-plane of the guide bar. See Figure 1.

5 Requirements

The chain catcher itself, its mounting and the saw body shall not have any tears or cracks when tested in accordance with Clause 6. The catcher shall also meet the dimensional requirement in Clause 4.

NOTE The catcher can bend during the test.

It is recognized that a chain catcher may seriously damage the saw chain upon contact. It is recommended that the chain catcher should be made of a material that will not needlessly damage the chain.

6 Test procedure

The test temperature shall be –25 °C ± 3 °C, unless the chain catcher, its fastenings and the saw body are of metal, in which case the test may be conducted at room temperature.

The chain catcher shall be attached to the saw in a normal way. During the test, the chain-saw shall be fixed upside down (see Figure 2) by its handles.

The chain catcher shall be struck once with a pendulum hammer. This pendulum shall have a steel head with a flat strike face, with a width of 7 mm ± 0,2 mm, and an arm with a length giving 700 mm ± 5 mm distance between the swivel point and the centre of the head (see Figure 2). The arm shall be as light as possible. The pendulum system shall cause an impact force of 7,5 J ± 0,3 J from a drop height of 300 mm. The direction and the contact of the blow shall be along the guide bar centre-plane.

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