
**Earth-moving machinery —
Hydraulic excavator and backhoe
loader lowering control device —
Requirements and tests**

*Engins de terrassement — Dispositif de contrôle d'abaissement de la
flèche des pelles et chargeuses-pelleteuses hydrauliques — Exigences
et méthodes d'essai*

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Foreword

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This document was prepared by Technical Committee ISO/TC 127, *Earth-moving machinery*, Subcommittee SC 1, *Test methods relating to safety and machine performance*.

This third edition cancels and replaces the second edition (ISO 8643:1997), which has been technically revised and contains the following changes:

- requirements and test provisions have been extended to support a wider range of lowering control device configurations.

Introduction

Where excavators or backhoe loaders are used for object handling, a failure or rupture in the hydraulic circuit can endanger persons under raised loads.

This risk can be reduced by applying a lowering control device, which ensures controlled lowering of the load in the case of a hydraulic line failure or rupture.

Test procedures are based on the design characteristics of the hydraulic systems of hydraulic excavators and the backhoe part of backhoe loaders, and conditions of use.

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