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AMENDMENT 1
2015-04-01

**Mechanical vibration — Evaluation of
machine vibration by measurements
on non-rotating parts —**

Part 6:
**Reciprocating machines with power
ratings above 100 kW**

AMENDMENT 1

*Vibrations mécaniques — Évaluation des vibrations des machines par
mesurages sur les parties non tournantes —*

Partie 6: Machines alternatives de puissance nominale supérieure à

100 kW

AMENDEMENT 1



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Foreword

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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).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT), see the following URL: [Foreword — Supplementary information](#).

The committee responsible for this document is ISO/TC 108, *Mechanical vibration, shock and condition monitoring*, Subcommittee SC 2, *Measurement and evaluation of mechanical vibration and shock as applied to machines, vehicles and structures*.

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Mechanical vibration — Evaluation of machine vibration by measurements on non-rotating parts —

Part 6: Reciprocating machines with power ratings above 100 kW

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Page ii, Foreword, replace the list by the following:

- Part 1: General guidelines
- Part 2: Land-based steam turbines and generators in excess of 50 MW with normal operating speeds of 1500 r/min, 1800 r/min, 3000 r/min and 3600 r/min
- Part 3: Industrial machines with nominal power above 15 kW and nominal speeds between 120 r/min and 15000 r/min when measured in situ
- Part 4: Gas turbine sets with fluid-film bearings
- Part 5: Machine sets in hydraulic power generating and pumping plants
- Part 6: Reciprocating machines with power ratings above 100 kW
- Part 7: Rotodynamic pumps for industrial applications, including measurements on rotating shafts
- Part 8: Reciprocating compressor systems
- Part 21: Horizontal axis wind turbines with gearbox

Page 1, Clause 1, 2nd paragraph:

Replace “gas compressors” by “reciprocating pumps”.

Page 1, Clause 1, replace the last paragraph by the following:

This part of ISO 10816 does not apply to

- a) machines installed in road vehicles (e.g. trucks, passenger cars, self-propelled construction machinery, tractors);
- b) reciprocating compressors.

NOTE For reciprocating compressors, see ISO 10816-8.

Page 1, Clause 2, replace the clause by the following:

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2041, *Mechanical vibration, shock and condition monitoring — Vocabulary*

Page 2, Note 1, replace the Note by:

NOTE 1 ISO 2041 includes three notes in the above definition. Notes 2 and 3 are not applicable to this part of ISO 10816.

Page 7, B.2:

Replace “compressor” by “pump”.

Page 10, Annex D, replace the Bibliography by the following:

- [1] ISO 2017 (all parts), *Mechanical vibration and shock — Resilient mounting systems*
- [2] ISO 2954, *Mechanical vibration of rotating and reciprocating machinery — Requirements for instruments for measuring vibration severity*
- [3] ISO 4866, *Mechanical vibration and shock — Vibration of fixed structures — Guidelines for the measurement of vibrations and evaluation of their effects on structures*
- [4] ISO 5348, *Mechanical vibration and shock — Mechanical mounting of accelerometers*
- [5] ISO 8528-9, *Reciprocating internal combustion engine driven alternating current generating sets — Part 9: Measurement and evaluation of mechanical vibrations*

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