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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 13436-2008

Replacing GB/T 13436-1992

**Technical requirements for torsional vibration measuring
instrument**

扭转振动测量仪器技术要求

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Foreword

This standard is GB/T 13436-1992 "torsional vibration equipment technical requirements" of the amendment. This standard compared with GB/T 13436-1992, the main technical changes are as follows:

- Torsional vibration instrument classification made redefined, the laser incorporated torsional vibration meter analogue electrical measuring torsional vibration meter, an increase of digital electric measuring torsional vibration Instrument and torsional vibration stress measurement instrument;
- Increased its digital electrical measuring instrument torsional vibration and torsional vibration stress gauge the technical requirements;
- Deletion of Appendix B Torsional Vibration Meter amplitude-frequency characteristics. Since the implementation of this standard replaces GB/T 13436-1992. Appendix A of this standard is an informative annex. This standard by the national mechanical vibration, shock and condition monitoring Standardization Technical Committee and centralized. This standard was drafted. China Shipbuilding Industry Corporation seventh eleven Institute. The main drafters of this standard. Wangwei Ci, Zhou Yan, Liu Wei, Hu Bin. This standard replaces the standards previously issued as follows:
 - GB/T 13436-1992. Technical requirements for torsional vibration measuring instrument

1 Scope

GB/T 13436-2008 is the Chinese national standard on technical requirements for torsional vibration measuring instrument, in the field of metrology and measurement. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 27 September 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2009. Classification: ICS 17.160, CCS J04. This page is published from the official record of the

standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the torsional vibration measuring instrument (hereinafter referred to as torsional vibration meter) shaft of the internal combustion engine classification, technical requirements and packaging, marking And storage. This standard applies to the measurement of physical quantities instruments Crankshaft torsional angle amplitude, frequency, torque shaft section or the like stress vibration. Measured He types shafting torsional vibration may also refer to the use of the instrument.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 191 Packaging - Pictorial signs (GB/T 191-2008, ISO 780.1997, MOD)

GB/T 4728 (all parts), Graphical symbols for electrical diagrams

GB/T 6388 transport package shipping mark

GB/T 6587.1-1986 master environmental testing electronic measuring instruments

GB/T 6587.2 Electronic Measuring Instruments Temperature Test

GB/T 6587.3 electronic measuring instruments humidity test

GB/T 6587.4 electronic measuring instrument vibration test

GB/T 6587.5 electronic measuring instruments impact test

GB/T 15464 instrumentation packaging technology Category

3 Torsional Vibration Meter according to their works divided into. digital electrical measuring instrument torsional vibration, torsional vibration analog electrical measuring instrument (including laser torsional vibration meter), torsional vibration stress measurement Instrument, mechanical torsional vibration analyzer. 4. Technical Requirements

4.1 Basic requirements

4.1.1 torsional vibration when the instrument must have a quality certificate factory.

4.1.2 Torsional Vibration Meter should be able to get the correct information measured shaft torsional vibration response (angular amplitude, frequency or stress axis segment, etc.). Generally it should also be able to obtain Speed \u200b\u200binformation detection points.

4.1.3 Frequency Range

4.1.3.1 torsional vibration frequency range meter can accurately measure in Table 1.

4.1.3.2 Torsional Vibration Meter amplitude-frequency characteristic curve flat (or substantially flat) part applies to the measured frequency range shafting. Elected with a twist Vibration meter, the frequency measurement time outside the above range, within the expanded range of frequencies, such as its characteristics are determined, can be used, but must be measured Correction.