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

GB/T 23718.4-2015

**Condition monitoring and diagnostics of machines --
Requirements for qualification and assessment of personnel --
Part 4: Field lubricant analysis**

机器状态监测与诊断 人员资格与人员评估的要求 第4部分：现场润滑剂分析
(English Translation)

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Reference

Foreword

GB/T 23718 "machine condition monitoring and diagnostics of staff qualifications and staff assessment requirements" includes the following components.

- Part 1. CB certification process and requirements;
- Part 2. Vibration condition monitoring and diagnostics;
- Part 3. training institutions and training process requirements;
- Part 4. on-site analysis of lubricant;
- Part 5. Lubricant laboratory technician/analyst;
- Part 6. Acoustic emission testing;
- Part 7. Thermography;
- Part 8. ultrasonic testing;
- Part 9. Status Monitoring Expert (This part of ISO being drafted).

This section is GB/T Part of 423,718.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with ISO 18436-4:2014 "machine condition monitoring and diagnostics of qualified personnel and staff to assess Partial Evaluation 4. Lubricant scene analysis "(in English).

Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 20921-2007 machine condition monitoring and diagnostics Vocabulary (ISO 13372:2004, IDT)

--- Requirements GB/T 23718.3-2010 machine condition monitoring and diagnostics of qualified personnel and personnel evaluation - Part 3. Culture Training institutions and the requirements of the training process (ISO 18436-3:2008, IDT) this part of the National mechanical vibration, shock and condition monitoring Standardization Technical Committee (SAC/TC53) and focal points.

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Introduction

Implement machine condition monitoring and fault diagnosis by analyzing the lubricant industry is the most preventive maintenance work main measures CONSTRUCTION. Other non-disintegration of the technology, including thermal imaging analysis, vibration analysis, acoustic emission testing and motor current analysis techniques as an auxiliary state Monitoring tools. Long-term use in the manufacturing sector shows that these technologies can bring far more than expected return on investment. However, these techniques should be with effect depends largely on the ability to perform measurement and analysis of personnel data.

Managed by the certification body of this section, it has become for the training and assessment personnel whose duties require a certain mechanical supervisor Theoretical and practical knowledge testing and diagnosis.

Machine condition monitoring and diagnostics of qualified personnel and personnel Assessment requirements - Part 4. Field lubricant analysis

1 Scope

GB/T 23718 provisions of this part of the assessment of personnel qualifications and lubricant analysis in the field of machine condition monitoring and diagnostics Claim.

This section of the certificate or declaration of conformity to provide personal ability and qualifications in the field of lubricant analysis of machine condition monitoring personnel Proof, but may not apply to professional equipment or other specific circumstances.

This section provides three levels divided by the technical scope of qualification of personnel.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 23718.1-2009 machine condition monitoring and diagnostics training and certification requirements - Part 1. certification bodies and the requirements of the certification process (ISO 18436-1:2004, IDT) ISO 13372 machine condition monitoring and diagnostics vocabulary (Condition monitoring and diagnostic of machines-vocabulary) ISO 18436-3 Machine condition monitoring and diagnostic personnel qualification requirements and assessment of personnel - Part 3. training institutions and training Requirements (Condition monitoring and diagnostic of machines-Requirements for qualification and assessment of personnel-Part 3. Requirements for training bodies and the training process).

3 Terms and Definitions

ISO 13372 define the following terms and definitions apply to this document.

Lubricant

Was added to the relative motion between the surfaces to reduce friction and wear control easily cut material.

Lubricant Analysis Lubricant monitoring and testing process and subsequent results of its analysis and reporting.

4.1 Overview

This section will be divided into three grades assessed persons, they should each have the appropriate level of on-site analysis of lubricant skills, see Appendix A.

I II grade level should have personnel with the knowledge and skills, III grade II officers should have personnel with knowledge and skills.