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

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Lubrication systems - Inspection specification

润滑系统 检验规范

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard was proposed and managed by the National Metallurgical Equipment Standardization Technical Committee (SAC/TC409). This standard was drafted. Sichuan Chuanrun Hydraulic Lubrication Equipment Co., Ltd., Qidong Lubrication Equipment Co., Ltd., Anhui Zhongtian Petrochemical Co., Ltd. Co., Ltd., Taiyuan Tongze Heavy Industry Co., Ltd., China National Heavy Machinery Research Institute Corporation. The main drafters of this standard. Zhu Qiang, Liu Fulan, Wang Xinyu, Wu Guobin, Gao Xiaomou, Gong Xiangrong, Wang Pengfei, Su Jing, Xia Juan. Lubrication system inspection specifications

1 Scope

China's national inspection specification for lubrication systems. It specifies the general requirements and the technical requirements for the various system types, beginning with thin oil systems. Inspecting a lubrication system is unlike inspecting most machinery because almost everything that matters is invisible in normal operation. The pump runs, the pressure gauge reads, and the machine gives no sign that one of its hundred lubrication

points has been dry for a month. So the inspection has to be a positive verification at each point rather than an observation of the system: that the metering device is delivering, that the line is clear, that the lubricant reaching the bearing is the right one and is clean. It also has to cover the reservoir, the filtration and the cooling, because a system delivering contaminated or overheated oil is doing harm rather than good while appearing to function correctly.

This standard specifies the technical requirements, test methods and inspection rules, marking inspection and packaging inspection of the lubrication system. This standard applies to the inspection of lubrication systems.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 191 Packaging, storage and transportation icon

GB/T 3287 malleable cast iron pipe connection

GB/T 5277 Fastener bolt and screw through hole

GB/T 9969 General Instructions for Use of Industrial Products GB/T 13306 signs

GB/T 14436 General rules for industrial product warranty documents

GB 18613 Limit value and energy efficiency rating of small and medium three-phase asynchronous motors

GB/T 19052 Guidelines for the drafting and presentation of noise emission test specifications for acoustic machines and equipment

GB/T 37400.3 General technical requirements for heavy machinery. Part 3. Weldments

GB/T 37400.10 General technical requirements for heavy machinery Part 10. Assembly

GB/T 37400.11 General technical requirements for heavy machinery Part 11. Piping

GB/T 37400.12 General technical requirements for heavy machinery Part 12. Painting

GB/T 37400.13 General technical requirements for heavy machinery Part 13. Packaging

GB 50093 Code for Construction and Quality Acceptance of Automation Instrumentation Engineering

3.1 General requirements

3.1.1 The manufacturing and inspection of the lubrication system shall be performed in accordance with the drawings and technical documents approved by the prescribed

procedures. Flow requirements and pressures of lubrication systems Design criteria shall be specified by or agreed with the buyer.

3.1.2 There should be no leakage or leakage in the lubrication system.

3.1.3 The lubrication system should be able to maintain the oil supply temperature at $40^{\circ}\text{C} \pm 3^{\circ}\text{C}$.

3.1.4 The sealing material in the lubrication system shall be compatible with the lubrication medium. Seals containing asbestos-free materials should not be used.

3.1.5 All elements of the lubrication system shall have a certificate of compliance.

3.1.6 Each external interface of the lubrication system shall be provided with a matching flange or pipe joint.