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

JB/T 10607-2006

Code of practice for use of hydraulic fluids

液压系统工作介质使用规范

(English Translation)

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1 Scope

This standard specifies the basic principles for hydraulic system fluids selection, use, storage and discard treatment as well as relevant technical guidance.

This standard is applicable to the hydraulic system for the general industry equipment and mobile machinery hydraulic system.

Fluids in this standard refer to the hydraulic fluids, including hydraulic fluids of mineral oil type and hydraulic fluids of synthetic hydrocarbon type as well as hydraulic fluids of synthetic type and environmentally acceptable hydraulic fluids.

As for the unflammable hydraulic fluids as the operation specification of fluids, the operation shall be in accordance with the requirements of GB/T 16898.

2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. For dated reference, subsequent amendments to (excluding correction to), or revisions of, any of these publications do not apply. However, the parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards. For undated references, the latest edition of the normative document referred to applies.

GB/T 3141 Industrial liquid lubricants-ISO viscosity classification (GB/T 3141-1994, eqv ISO 3448: 1992)

GB/T 7631.2-2003 Lubricants, industrial oils and related products (class L)-Classification-Part 2: Family H (Hydraulic systems) (ISO 6743-4: 1999, IDT)

GB 11118.1-1994 Hydraulic fluids of mineral oil type and synthetic hydrocarbon type

GB/T 14039-2002 Hydraulic fluid power--Fluids--Method for coding the level of contamination by solid particles (ISO 4406: 1999, MOD)

GB/T 16898 Guidelines for use of fire-resistant hydraulic fluids (GB/T 16898-1997, idt ISO 7745: 1989)

GB/T 17446 Fluid power systems and components-Vocabulary (GB/T 17446-1998, idt ISO 5598: 1985)

GB/T 17484 Hydraulic fluid power--Fluid sample containers--Qualifying and controlling cleaning methods (GB/T 17484-1998, idt ISO 3722: 1976)

GB/T 17489-1998 Hydraulic fluid power--Particulate contamination analysis--Extraction of fluid samples from lines of an operation system (idt ISO 4021: 1992)

GB/T 50073-2001 Code for design of clean room

GB/T 20079 Hydraulic fluid power-Filters-General specification

GB/T 20082 Hydraulic fluid power-Fluid contamination-Determination of particulate contamination by the counting method using an optical microscope (GB/T 20082-2006, ISO 4407: 2002, IDT)

SH/T 0476-1992 Criteria for change of L-HL hydraulic oil

SH/T 0599-1994 Criteria for change of L-HM hydraulic oil

ISO 11500 Hydraulic fluid power -- Determination of the particulate contamination level of a liquid sample by automatic particle counting using the light-extinction principle

3 Terms and Definitions

Those established in GB/T 17446 and the following terms and definitions are applicable to this standard.

3.1 Hydraulic fluids of mineral oil type

The base oil refined from the petroleum through physical distillation method is referred to as mineral oil (including some non-deep hydrogenated base oil).

3.2 Hydraulic fluids of synthetic hydrocarbon type

They refer to the hydraulic oil prepared by the base oil (majority of the constituents not directly existing in the petroleum) obtained through chemical synthesis.

3.3 Hydraulic fluids of synthetic type

They refer to the hydraulic fluids prepared by the base fluid (major of the constituents not directly existing in the petroleum) obtained through chemical synthesis or those directly synthesized through chemical method.

3.4 Environmentally acceptable hydraulic fluids

They refer to the hydraulic fluids that may be decomposed by the environmental microorganisms after discarded, finally mineralized, and become one component of carbon element cycling in the nature.