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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3606-2013

Determination of water and sediment in middle distillate fuels. Centrifuge method

中间馏分燃料中水和沉淀物含量的测定 离心法

(English Translation)

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Foreword

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

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. People's Republic of China Shanghai Entry-Exit Inspection and Quarantine Bureau.

Drafters of this standard. Shen Bo, Qiu Feng, Zhang Jidong, fees Xudong, Wang Wenqing, Wei Yufeng, Zhao Bo.

Determination of middle distillate fuels in water and sediment content Centrifugation

1 Scope

This standard specifies a method for determining centrifugation middle distillate fuel in the water and sediment content.

This standard applies to 40 °C viscosity in the range of 1.0mm2/s ~ 4.1mm2/s, a density in the range of 770kg/m3 ~ 900kg/m3 of Determination of water and sediment content of middle distillate fuels.

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 4756 petroleum liquids hand sampling method (GB/T 4756-1998, ISO 3170. 1988, MOD)

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3 Terms and Definitions

The following terms and definitions apply to this document.

Distillate fuels distilatefuel Fuel flash point above 38 °C straight-run distillates, cracked distillates, or a mixture of both.

4 Summary

At 21 °C ~ 32 °C, the 100mL undiluted sample placed in a centrifuge tube and centrifuged at a relative centrifugal force of 10min 800.

After centrifugation, samples of water and sediment deposited on the bottom separated from the centrifuge tube. According to the graduated centrifuge tube in the bottom of the tube readout centrifugation the volume of water and sediment.

5.1 Centrifuge

Simultaneously using two tubes and two or more, it is possible to provide a relative centrifugal force of 800 ± 60 rpm. He turned around, trunnion ring, bearing and the spacer assembly are well able to withstand the maximum centrifugal force provided by the motor. Trunnion ring and liner during centrifugation of tubes protection.

Centrifugal equipment should be sealed in a metal housing to prevent damage to the device.

The data in Table 1 is used in terms of centrifugal speed and relative centrifugal force size to be achieved. Conversion should be based on the formula (1).

vrpm = 422 Frcfd

Where.

vrpm -- rpm;

Frcf -- relative centrifugal force;

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