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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

SN/T 3230-2012

Determination of the level of cleanliness of aviation turbine fuel. Portable automatic particle counter method

航空涡轮燃料洁净度的测定 便携式自动颗粒计数器法

(English Translation)

Issued on: October 23, 2012 **Implemented on: May 1, 2013**

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Foreword

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

The technical content using standard IP565/09 "aviation jet fuel cleanliness measurement portable automatic particle counter method" and made the following editorial changes.

--- Delete the original standard for all instruments and certified standard material supply described superscript "1";

--- Delete the original standard "13.1 General" in the description of the numerical precision of the source;

--- Delete the original standard "Chapter 14 Experiment Report";

--- Delete the original standard profile information in "Appendix C";

--- Delete the original standard references and summary of changes.

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

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

1 Scope

This standard specifies the determination dispersed in aviation turbine fuel particles.

This standard applies to particle size 4μm (C) ~ 30μm (C), the total cumulative count over 60,000/mL range of dust and water droplets Determination.

Note 1: In this standard, the water droplets are considered particles, agglomerated particles in a single individual image is detected. Although the measurement of the projection area, but in the party Method, is used as the projected area diameter of the particle.

Note 2: The subscript (C) shows the particle size can be traced to the use of GB/T 18854 equipment to measure.

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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, EQV) GB/T 6682 analytical laboratory use specifications and test methods (GB/T 6682-2008, ISO 3696. 1987, MOD) GB/T 14039 Hydraulic fluid level of contamination by solid particles (GB/T 14039-2002, ISO 4406:1999, MOD) GB/T 18854 Hydraulic fluid automatic particle counter calibration (GB/T 18854-2002, ISO 11171:1999, MOD) Determination and application of precision IP367 test method of petroleum products

3 Terms and Definitions

The following terms and definitions apply to this document.

Particle size by the NISI determined using a scanning electron microscope, or using the standard calibration of liquid automatic particle counter (APC) determined pieces Grain projected area equivalent diameter (unit. μm).

Cumulative count in each preset size channels (>=4μm (C), >=6μm (C), >=14μm (C), >=21μm (C), >=25μm (C), >=30μm (C)) per ml Liter sample of the total number of particles in a/mL.

ISO code ISO codes

With GB/T 14039 stipulated in ISO code to indicate the test results. The code with class code X/Y/Z expressed in the form in which XYZ respectively per milliliter sample particle size >=4μm (C), >=6μm (C), >=14μm (C) cumulative particle counts.

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