

ICS 43.060.40

CCS T 13



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

GB/T 35348-2017

**Diesel engines -- Fuel filters -- Method for evaluating fuel/water
separation efficiency**

柴油机 燃油滤清器 油/水分离效率的评定方法

(English Translation)

Issued on: December 29, 2017

Implemented on: July 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China, Standardization
Administration of the People's Republic of China**

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Foreword

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

This standard uses the translation method identical with the international standard ISO /T S16332.2006 "Diesel fuel filter oil/water separation efficiency Assessment method. " This standard made the following editorial changes.

--- "μL/L" instead of "ppm";

--- "L/h" instead of "l/h".

1 Scope

This standard is the continuous injection of water and off-line water concentration test technology, the determination of the fuel/water separator dispersed in the fuel distribution in the small or coarse insoluble water separation water efficiency assessment method.

This standard applies to the rated flow of 50L/h ~ 900L/h range, installed at low Pressurize the pump upstream and downstream of the fuel/water separator. If both supply and demand are negotiated, fuel/water separators that exceed the flow range are also suitable.

2 Normative references

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

ISO 760 Determination of moisture Karfischer method (general method)
[Determinationofwater-Karl Fischermethod (Generalmethod)]

ISO 1219-1 hydraulic power transmission systems and components graphic symbols and schematics - Part 1. Graphical symbols
(Fluidpowersys-temsandcomponents-Graphicsymbolsandcircuitdiagrams-Part 1:
Graphicsymbolsforconven-tionaluseanddata-processingapplications)

ISO 6889 Surfactant through the liquid membrane interface tension
(Surfaceactiveagents-Determinationofin-terfacialtensionbydrawingupliquidfilms)

ISO 13320-1 Particle Size Analysis Laser Diffraction Part 1. General rules
(Particulatesizeanalysis-Laserdiffraction methods-Part 1: Generalprinciples)

ASTM D1401 Petroleum and synthetic liquid water separation assay
(StandardTestMethodforWaterSeparabilityof PetroleumOils and Synthetic Fluids)

CEC RT-03.2003 Standard Fuel Specification RF-06-03 [CEC Legislative FUEL RF-06-03
(referencefuelspeci-fication)]

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Interfacial tension

The force required to increase the surface area between two liquid interfaces, the interfacial tension in millinewtons per meter (mN/m).

3.2 Small drops size distribution (water droplet distribution, DSD)

Distribution of different sizes of small droplets, expressed as a percentage.

3.3 Background water concentration (base water concentration)

Dissolved in the fuel is saturated with water concentration.