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GB 36170-2018

Crude Oils

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Crude Oils

Warning: if proper precautionary measures are not complied with, possible risks might exist in the production, storage, transportation and usage of product that belongs to this Standard. This Standard is not intended to propose recommendations of all the safety issues regarding this product. Before applying this Standard, users shall be liable to establish proper safety and precautionary measures and determine the applicability of relevant regulatory restrictions.

1 Scope

This Standard specifies the determination, technical requirements, test methods, inspection rules, packaging, storage, transportation and safety of crude oil base.

This Standard is applicable to commercial crude oils.

2 Normative References

The following documents are indispensable to the application of this Standard. In terms of references with a specified date, only versions with a specified date are applicable to this Standard. The latest version (including all the modifications) of references without a specified date is also applicable to this Standard.

GB/T 511 Petroleum Products and Additives - Method for Determination of Mechanical Admixtures

GB/T 1884 Crude Petroleum and Liquid Petroleum Products - Laboratory Determination of Density - Hydrometer Method

GB/T 1885 Petroleum Measurement Tables

GB/T 4756 Petroleum Liquids - Manual Sampling

GB/T 6532 Test Method for Salt in Crude Oils (potentiometric method)

GB/T 7304 Standard Test Method for Acid Number of Petroleum Products by Potentiometric Titration

GB/T 8929 Crude Petroleum - Determination of Water - Distillation Method

GB/T 11059 Standard Test Method for Determination of Vapor Pressure of Crude Oil: VPCRx (expansion method)

		Intermediate - Cycloalkane Base		
Water Content ^a (mass fraction)/% ≤	0.50	1.00	2.00	GB/T 8929
Vapor Pressure under Handover Temperature ^b /KPa ≤	66.7			GB/T 11059
Mechanical Impurities Content ^a (mass fraction)/% ≤	0.05			GB/T 511
Pre-204 °C Fraction Organic Chlorine Content (mass fraction)/ (μg/g) ≤	10			GB/T 18612
Salt Content (calculated by mass fraction of sodium chloride) ^c /%	Report			GB/T 6532
Density (20 °C) ^d /(kg/m ³)	Report			GB/T 1884, GB/T 1885
Sulfur Content ^e (mass fraction)/%	Report			GB/T 17606
Acid Value ^f (calculated by potassium hydroxide)/ (mg/g)	Report			GB/T 18609

^a Under special circumstances, both parties can implement it in accordance with their agreement.

^b Exclusively for handover crude oil under open storage and transportation.

^c SY/T 0536 or SN/T 2782 can be adopted for determination; when the result is controvertible, the result shall be subject to the method in GB/T 6532.

^d SH/T 0604 or NB/SH/T 0874 can be adopted for determination; when the result is controvertible, the result shall be subject to the method in GB/T 1884 and GB/T 1885.

^e GB/T 17040 or GB/T 11140 can be adopted for determination; when the result is controvertible, the result shall be subject to the method in GB/T 17606.

^f GB/T 7304 can be adopted for determination; when the result is controvertible, the result shall be subject to the method in GB/T 18609.

5 Inspection Rules

5.1 Sampling

Sampling shall be conducted in accordance with GB/T 4756 or GB/T 27867.

5.2 Group Batch

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