

重庆特璞滤油机有限公司

**CHONGQING TOP OIL PURIFIER CO., LTD** 

# **TP-130**

### Sediment Analyzer for Crude Oil and Fuel Oil

### **OPERATING INSTRUCTIONS**

Please read this guide carefully before use

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#### 1. Overview.

The instrument is designed and manufactured according to the national standard GB / T6531 "determination of sediment in crude oil and fuel oil". It also fully meets the requirements of ASTM D473. It is mainly suitable for toluene extraction to determine the sediment content in crude oil and fuel oil.

#### 2. Main technical parameters

(1) Extractor:

A.Condenser: a metal coil with a diameter of 25 mm and a length of about 50 mm, with the end extending out of the cover plate. The coil is made of copper pipe with an outer diameter of 5-8 mm.

B.Extraction sleeve: made of refractory porous material, with pore diameter index of 10-16  $\mu$  m, minimum permeability of 1.7m 3 / m2  $\cdot$  thousand seconds (air flow rate at 100 PA pressure)

C.Sleeve Basket: made of stainless steel

D.Water cup: made of glass, tapered, with diameter of about 20 mm, depth of about 25 mm and capacity of about 3 ml. on the side edge of the cup, a glass hook is fused, and the edge of the cup should be quite horizontal.

(2) Heat source: halogen furnace, power 800W

(3) Power supply: AC 220V ± 10% 50Hz

#### **3.Principles**

The sample is placed in a sleeve of refractory porous material and extracted with hot toluene until the residue reaches constant weight. The amount of residue is expressed as a percentage by weight.

#### 4. Structural features

The instrument consists of halogen furnace, condenser, extraction sleeve, sleeve hanging basket, water cup, extraction flask, etc

The structure of the instrument is shown in the figure below (the picture is for reference, and the actual object shall prevail for details)



- 1. Condenser
- 2. Water cup
- 3. Extraction sleeve
- 4. Sleeve hanging basket
- 5. Extraction flask

GB/T 6531-86



Figure 1 extraction instrument for sediment determination



Figure 2 basket type sleeve support

5. How to use it.

(1) Place the halogen furnace on the test bench, and connect the power supply after it is placed stably.

(2) Place the conical flask containing 200-250 ml toluene on the halogen furnace, but it must be placed on the heating zone of the halogen furnace.

(3) Pour the well mixed sample into the sleeve for about 10 g, and put the sleeve into the extractor.

(4) Hang the water cup and the extractor with the sample installed on it to the place where the condensation and the upper cover fall off respectively.

(5) Start the power supply to heat the conical flask, and the heating temperature can be adjusted according to the test requirements.

(6) When the solvent dripped from the sleeve is colorless, extract it for another 30 minutes. Ensure the extraction rate so that the mixture of oil and toluene in the sleeve is not higher than 20 mm below the edge of the sleeve.

(7) Please read the attached operation manual carefully, and pay attention to high temperature to avoid scalding.

(8) Please refer to GB / T6531/ASTM D473 (reference attached) for detailed test method.

If the instrument fails, it should be repaired by professional personnel. Do not disassemble it randomly

### III.Packing List

Product Name: Crude Oil and Fuel Oil Sediment Tester Model: TP-130

S/N	Name	Specification	Qty	Remark
1	Condenser		1 pc	
2	Extraction sleeve		1 pc	
3	Sleeve basket		1 pc	
4	Water cup		1 pc	
5	Extraction flask	1000mL	1 pc	
6	Halogen furnace		1 set	
7	Operation Manual		1 сору	
Packing List:		Packing Date:		nspector: