DETERMINATION OF ASPHALTENE CONTENT AND DEVICE THEREFOR

ABSTRACT OF THE DISCLOSURE

A method for precisely and effectively determining an asphaltene content in a heavy hydrocarbon oil which can be applicable to a wider range of asphaltene content and a device therefor is disclosed:

(1) The method comprises measuring absorbances of a sample solution having dispersed therein asphaltene particles at two different wavelengths being at a distance of at least 50 nm selected from the visible light range of from 500 to 1,000 nm and obtaining an asphaltene content from the two measured values utilizing a relationship between known asphaltene contents and absorbances.

(2) The device for determining asphaltene content in a sample solution, which comprises dipping a means for determinig the absorbances at two different wavelengths into each probes which are standed in a line, or connecting the means into a flow-cell and passing the sample solution through the flow cell to determinate the absorbances.

FIGURE 1