

Determination of SARA components content in crude oil by infrared spectroscopy in middle region

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Abstract

On the basis of the SARA-components content data and analysis of the IR spectra of thirty oils using multivariate data analysis techniques correlation between the infrared spectra, and the content of asphaltenes, resins and waxes in these oils have been established and appropriate calibration model have been constructed. Comparison between the models constructed on the basis of the transmission spectra and spectra of multiple attenuated total reflectance have been carried out.