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## Fluorescence method for the determination of oil identity

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Keywords

fluorescence, petroleum, oil identification

Abstract

The paper presents an objective method for distinction and identification of oils based on the comparison of total fluorescence spectra of their hexane solutions. The spectra comparison was conducted by means of the determination of the differences between the normalized functions, which describe the internal fluorescence efficiencies of the solutions of the substances under investigation. A criterion of oil identity, which involves limited accuracy of spectra measurement, has been defined. The efficiency of the method was tested on 51 lubrication oils.



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