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High-octane Fuel Compositions based on Petroleum and Biocomponents

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ABSTRACT: Environmental friendliness of fuels used in automobile internal combustion engines is a global problem of humanity, which is given considerable attention by both leading scientists and practitioners of the all refining industry, as well as international environmental organizations. Today, the share of oil that meets the needs of the transport industry is 97-99%, and the share of the transport as the final consumer of energy carriers is constantly growing.

The purpose of our investigation is to optimize the composition for the production of diesel fuel for spark-ignition engines using bio-additives. The object of the research is diesel fuels with different content of bio-component (IBERO) and additives. The object of the study is the property of diesel fuels, taking into account changes in the ratio of components.

Keywords: Biodiesel; Bio-components; Functional additives

Short BIO:

V. Tkachuk received in 2005 her MSc degree in “Commodity Science and Expertise in Customs” at Lusk National University in Ukraine, in compliance with “Commodity Study of Fuel and Lubricants, Safety of Goods” educational disciplines.

From September 2009 to June 2010, she was Assistant at the Department of Commodity Science and Expertise in Customs at Lusk National Technical University. In the same department, from June 2010 to September 2013 she was Senior Lecture; since September 2013 she become Associate Professor.

From September 2020 to January 2021, she held the position of Vice-Rector of Lusk National Technical University.

From January 2021 she is Dean of Customs Affairs, Materials and Technologies Faculty at Lusk National Technical University, and from February 2022 she is Full Professor of Commodity Science and Expertise in Customs at the same university.

Her research interest regards the field of quality and range of motor fuels.



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