

Life motion of black gold



Today's great and fast progress achieved by the civilization in everyday's life in the last hundred years is largely based on the discovery and wide use of the oil ("the black gold"). Thanks to this multi-purpose and strategic substance a good basis is created so that the civilization can go forward with even bigger steps towards its progress, applying newer inventions and techniques. Oil is a complex combustive organic mixture with great number of compounds. The basic compounds are carbohydrates. It is yellow, dark brown and even black liquid with specific smell. The density of most of the oils moves within the limits from 820 to 900 kg/m³ with heat of combusting from 40.000 to 48.000 kJ/kg. Oil in nature can be found accumulated in sedimentary layers of the Earth's crust. The depth of the oil-bearing layers moves from couple of meters to 3.000 m. and more. Today the organic theory is generally accepted. In accordance with it oil was created in the far biological past from extinct life organisms and various prehistoric animals. Under specific conditions and the long time period the sedimentary oily substances converted under pressure and increased temperature into oil.

Man is familiar with oil long time ago and used it as fuel, means for preserving, medicaments etc. With the first oil drilling in Pennsylvania oil usage started to increase in the middle of 19th century. Especially fast development may be noticed with the discovery of engines with internal combustion of gas, and later the industry of oil started to develop. Today a great number of products mainly liquid fuels and oils for greasing are produced from oil. Modern chemistry can not be imagined without basic raw materials obtained from numerous compounds by processing of the oil. That process still develops and contributes to the production of new clean ecological products. Thus, the oil continues to move the world.

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