

## **Process of purification of motor oil and its use as an ecological fuel**

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Used motor oil can be cleaned with a suitable chemical treatment in order to obtain purified motor oil that can be re-used as motor oil for vehicles or ecological fuel. The need for recycling of waste made from the used motor oils initiated the idea for its cleaning with a simple, rapid, environmentally safe, secure and inexpensive process. Technical and technological procedure which does not require much time, human resources and large workspaces is used. The products which are used for motor oil purification are products that are readily available on the market. The process begins by filtration which removes mechanical impurities. The process of filtration is followed by the process of chemical treatment with concentrated acid and base and finally with a small amount of suitable adsorbents water and ions are being removed. The process ends with repeated filtration that uses the same filter as at the beginning of the process.

The resulting oil is purified with satisfactory quality and can be used as oil used in motor vehicles as ecological fuel. Purified oil can be used as fuel in central heating system and provides reduced heating costs and a cleaner environment in terms of reducing exhaust fumes.

Key words: motor oil, purification, ecological fuel