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Spent Diesel Fuel and Its Impact on the Environment

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Passenger cars with diesel engines are becoming more and more popular in the world, especially in developed European countries. Thus, diesel fuel is highly economical and is widely used in automobile and tractor internal combustion engines of diesel type. Diesel engines produced today are cleaner than ever before. However, because they can run for 30 years or more, millions of older and dirtier engines are still in use. Diesel fuel is also widely used in various industries, and in large volumes. Therefore, the question of where to put spent fuel is acute not only in our country, but also around the world.

Reducing the impact of diesel exhaust gases from these engines is especially important for human health and the environment: for human health, exposure to diesel exhaust fumes can lead to serious illnesses such as asthma and respiratory diseases, and can worsen existing heart and lung diseases, especially in children and the elderly, may lead to premature death. Emissions from diesel engines into the environment contribute to the formation of ozone, which damages crops, trees and other vegetation. Acid rain is also formed, which affects the soil, lakes and streams and enters the human food chain through water, food, meat and fish. When exposed to exhaust gases, the climate changes, which affects air and water quality, weather conditions, sea level, ecosystems and farming.

The disposal of spent diesel fuel is strictly regulated by State standards. It is forbidden to drain spent diesel fuel into

the ground or reservoirs in order to avoid their contamination with toxic substances and disturbance of ecosystems. Since this causes great harm to the ecology of our country. Waste oils pose a huge danger to our nature. A small amount of such waste can seriously pollute the soil, water and lead to the death of animals. One liter of spent diesel fuel can pollute a ton of groundwater. A special composition of oils can provoke cancer in humans.

Collection, transportation and utilization of spent diesel fuel must be carried out by an organization licensed to handle waste of hazard class 3. Spent fuel reprocessing should take place at a specially equipped facility. The disposal of spent diesel fuel must be accompanied by the neutralization of hazardous substances. Combustible residues of diesel fuel after the necessary treatment can be disposed of by burning as furnace fuel.

The problem of processing used oils as waste of petroleum products is one of many, since the whole world is interested in recycling as much waste as possible and preserving the environment at least in the form in which it is now. Many experts say that spent diesel fuel from the point of view of quality may well be allowed for further industrial or economic use. For this reason, American engineers have set a goal to develop special equipment capable of converting oil waste into good fuel for high-quality and safe operation of diesel engines. To date, the most common technology for producing diesel fuel is the processing of engine and transmission oil. After all this, the waste oil can be used to create diesel fuel. The quality of spent fuel is quite acceptable, so it can be reused without compromising diesel engines.

The most common way to dispose of spent diesel fuel is a boiler room. These boilers use fuel for boilers that are designed for room heating and water heating. Therefore, in this way you can significantly save on heating.