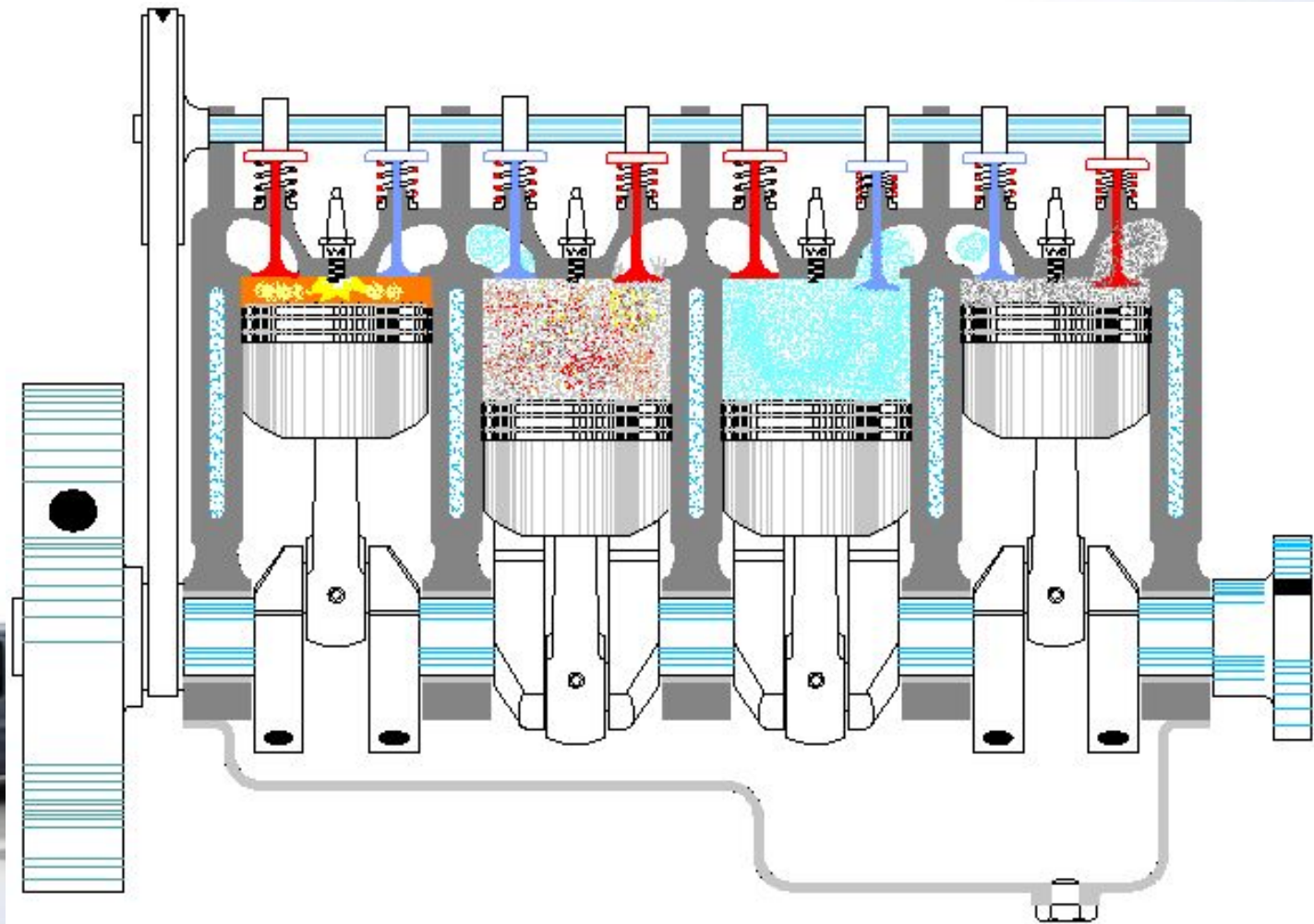


Diesel and petrol power



Petrol engine

In a gasoline engine, an air-fuel mixture is formed in the intake manifold, that is, outside the cylinder. At the end of the compression stroke, gasoline and air vapor are mixed. This homogeneous mixture is evenly distributed in volume. The result of compression is an increase in the temperature of the mixture to 500°C - this figure is lower than the ignition temperature of gasoline. Spark give spark plugs - the mixture lights up.



Diesel engine

In the cylinder of a diesel engine, only air under pressure of 30–50 bar is compressed. As a result of compression, the air temperature rises to 900 ° C. At the same time, diesel fuel is sprayed in the combustion chamber in front of the top dead center of the piston. Small drops of liquid evaporate, a fuel-air mixture is formed, which is called heterogeneous — it ignites and burns itself.



Petrol Engine



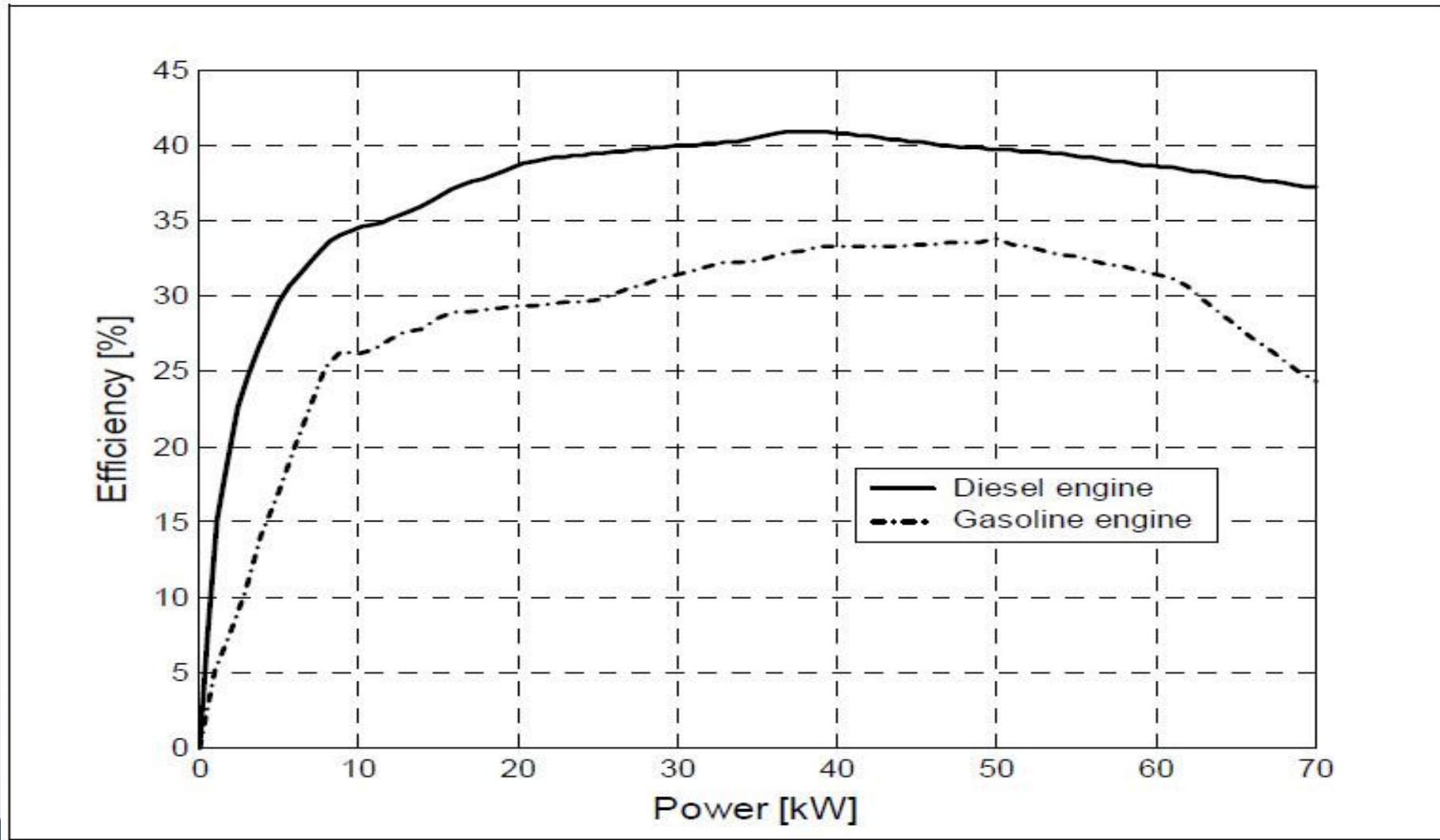
VS

Diesel Engine



Engine efficiency and power

Graph power diesel and petrol engines



Noise

Due to the high pressure during the combustion of fuel, diesel engines create more noise and vibrations, but the situation is saved by high-quality sound insulation of the car.



Exhaust

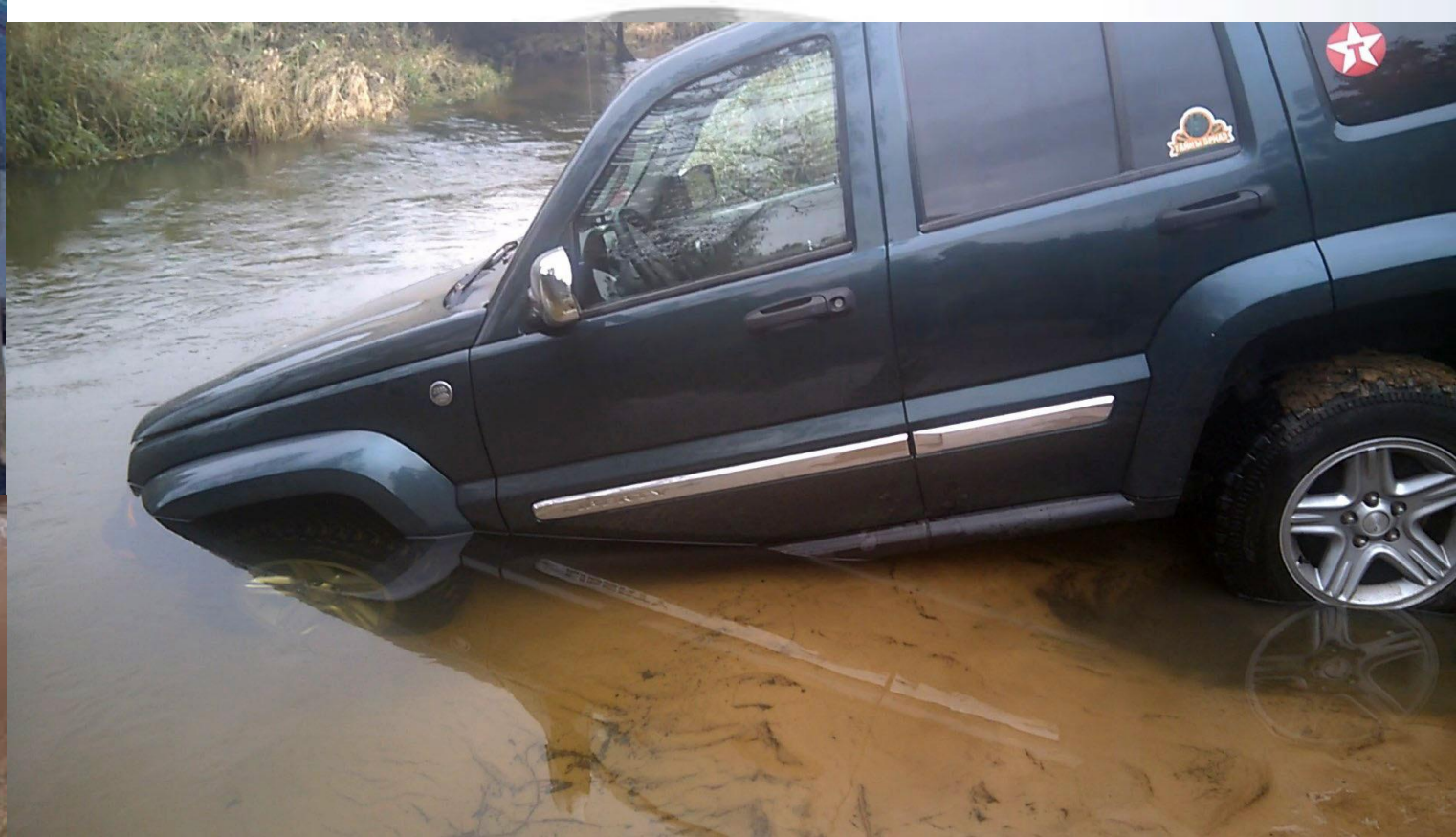


Security

The difference between diesel and gasoline fuel is as follows: diesel evaporates more slowly, which reduces the likelihood of fire. In addition, in diesel units ignition system is not used.



Exploitation



Service

Owners of cars with diesel engines often have to change filters and oils and check the compression in the cylinders. Similar units differ in a difficult design, therefore experts of car-care center will be able to eliminate not each breakage. Repair of a diesel engine, as a rule, is more expensive.

Diesel requires large investments, but only if we talk about the short term. If you buy a car for a long time (from 5 years) and plan to drive at least 20 thousand kilometers a year, then due to low fuel consumption, the diesel will save you money.



For you tried:



Roma Poshpal - scriptwriter, production director, announcer.



Nikita Antonevich - assistant director, editor in chief, team mascot.



Yura Sheremet - cameraman, costume designer, assistant director.

Thanks for attention

