

## Function of Motor Oil

If the engine is the heart of a car, then the motor oil is its blood. But not all oils are the same. With the continuous development of engines, the requirements made of oil have also increased. Oil must now be capable of much more than just lubricating and cooling: It must function even at high temperatures and pressures; it must clean the engine from combustion residue, grit, acids, water and fuel particles; it must protect the engine from corrosion and keep its density. Modern engine oils are high-tech liquids designed specifically for used in certain car models, practically tailor-made replacement parts.



Decades ago engines were less demanding regarding motor oil and tolerated different oil grades. On the other hand oil consumption was significantly higher and oil changes more often necessary. Meanwhile engines became more powerful, more economical and less exhaust emitting. So they need motor oil perfectly suited for their demands.

If you install the wrong brake system in your car the brake will not work properly or even won't work at all. That's the same with motor oils. Therefore you should imperatively use the right oil. Your driver manual clearly says what kind of oil your motor needs. If you use other motor oils than specified you experience a number of disadvantages:

- loss of manufacturer's warranty
- increased fuel consumption
- increased wear of the engine
- decreased life time of your engine
- increased risk of break-downs
- particulate filter and catalytic convertor may be damaged beyond repair
- serious damage of the engine