

## Approvals for Motor Oils

The rapid pace of developments in drive technology has increased the demands on operating fluids – particularly lubricants. Lubricant technology is also influenced by high-performance assemblies, direct fuel injection, extended service intervals and the reduction in emissions to comply with EU limits. Today, motor oils are adapted to engine requirements like tailor-made suits. Vehicle manufacturers have gone down a number of different routes, though, and developed their own individual specifications.

The SAE viscosity alone, for instance, is a long way off being a sufficient criterion for the correct motor oil. That is why there are a variety of SAE 0W-30 motor oils on the market, meeting different requirements and thus not comparable with each other. Such a specification will, for instance, include detailed requirements on the base oil grade, certain additives and active agents. Thresholds for friction, wear, engine cleanliness or oil consumption will also be defined and monitored in time-consuming test bench processes.



**Motor oils from LIQUI MOLY** are developed to meet these specifications and are tested and approved by the vehicle manufacturers. This results in an "approval" that is indicated on sales literature and containers. Car drivers and workshops would be well advised to adhere to the specifications issued by the vehicle manufacturers and to use only the relevant approved motor oils for their vehicles. If they do not, they could suffer loss of performance, higher emissions and even engine damage, which would not be covered by any warranty.

The development of engine technology will continue to advance – and so will the range of specifications and motor oils. That's why you need a reliable partner for everything to do with lubricants: **LIQUI MOLY**.