



Toyota Genuine Motor Oil.



TME announces product specifications in the TGMO range

Toyota Genuine Motor Oil SAE 5W-30

Toyota Genuine Motor Oil Fuel Economy SAE 5W-30 is a unique high performance fuel-efficient engine oil that satisfies the needs of passenger cars and light commercial vehicles – including vans – with either petrol or diesel engines. It has been formulated from a very special non-conventional base oil, together with advanced high performance additive components in order to provide excellent durability for long life performance, wear protection, low temperature performance, reduced emissions and unsurpassed fuel efficiency.

Toyota Genuine Motor Oil Fuel Economy SAE 5W-30 meets the lubrication requirements of petrol and diesel engines, including turbocharged engines, the most up to date lean burn petrol engines and engines equipped with catalytic converters.

It is certified against the ACEA A1/B1 European Oil Sequences describing service fill oil requirements for petrol and light duty diesel engines. It also meets the most recent API engine service classification SL with additional energy conservation standards.

Benefits

Reduced fuel consumption

Fuel consumption data – obtained in co-operation with major European car manufacturers and by field testing in a variety of European vehicles – has demonstrated fuel savings of up to 6%, giving customers the best cost-of-ownership experience.

Reduced emissions

Major lubricant manufacturers have been working with car manufacturers to develop engine oils that assist in the reduction of CO₂ emissions in line with the '92 Rio and '97 Kyoto Environmental conferences, by reducing fuel consumption throughout the life of the engine.

Complete engine protection

Toyota Genuine Motor Oil Fuel Economy SAE 5W-30 provides protection against starting friction, heat stress and the formation of harmful engine deposits, sludge and varnish.

Superior low temperature performance

The excellent wide range viscosity-temperature characteristics and exceptional low-temperature fluidity of **Toyota Genuine Motor Oil Fuel Economy SAE 5W-30** ensure that oil gets pumped to all parts of the engine quickly to protect against starting friction and wear.

Reduced engine noise

The excellent frictional characteristics of **Toyota Genuine Motor Oil Fuel Economy SAE 5W-30** have been shown to reduce engine noise by reducing metal to metal contact within the engine, thereby reducing wear.

Reduced frictional losses

Tests have shown that **Toyota Genuine Motor Oil Fuel Economy SAE 5W-30**, when evaluated under identical operating conditions, enhances engine power than a fully synthetic 5W-40, thereby ensuring lower fuel consumption at equal performance levels.

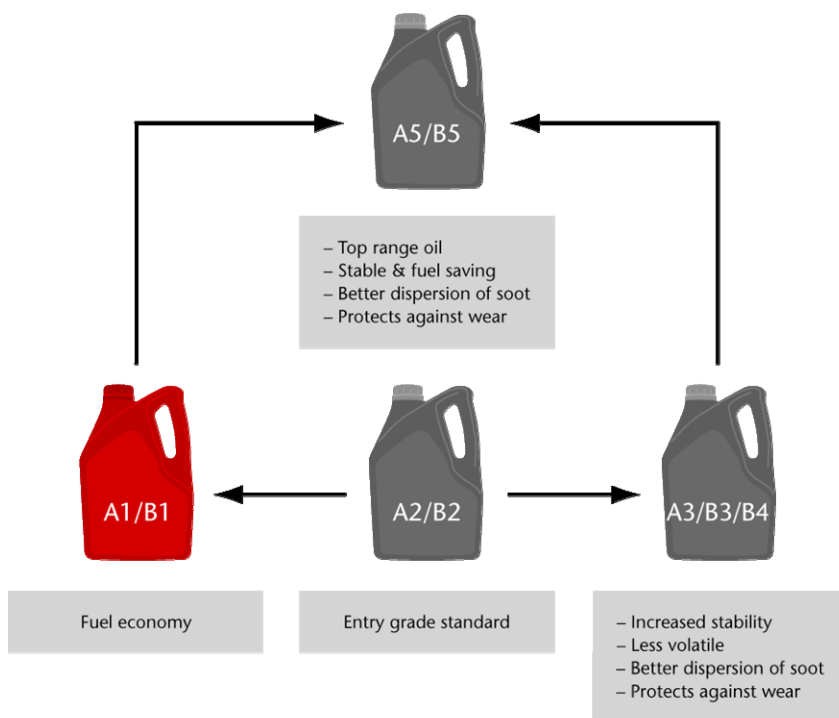
Applications

Toyota Genuine Motor Oil Fuel Economy SAE 5W-30 is suitable for petrol and diesel engines, both turbocharged and naturally aspirated, requiring an SAE 5W-30, API SL, ACEA A1/B1-04 or CCMC G5/PD2 – it also meets all the requirements of ACEA A3/B3-04 with the exception of the HTHS / shear stability viscosity. The oil offers an excellent level of protection against black sludge, wear and oil oxidation together with the highest level of fuel efficiency.

Standards and approvals

Toyota Genuine Motor Oil Fuel Economy SAE 5W-30 surpasses the following international petrol and diesel engine oil performance standards and approvals:

- Certified against ACEA A1/B1-04
- The oil has the performance level of ACEA A3/B3-04
- Meets the API SL/Energy Conserving



Health and safety

Toyota Genuine Motor Oil Fuel Economy SAE 5W-30 has been formulated to the highest safety standards and is unlikely to present any significant health and safety hazards when used properly in the recommended application, and when good standards of industrial and personal hygiene are maintained.

However, should eye contact occur, flush for a minimum of 15 minutes with clean water.

A comprehensive Materials Safety Data Sheet is available on request and is supplied as a matter of course to purchasers of this product.

Typical data

| | |
|---|--------|
| Density at 15 °C, kg/l | 0.85 |
| Colour ASTM | 3.0 |
| Flash point (COC), °C | 220 |
| Pour point, °C | -45 |
| Kinematic viscosity, mm ² /s | |
| at 40 °C | 56.2 |
| at 100 °C | 9.95 |
| Apparent viscosity, mPa.s | |
| at -30 °C | 3900 |
| Viscosity index | 165 |
| HTHS viscosity at 150 °C, mPa.s | 2.93 |
| Kinematic viscosity after shear at 100 °C, mm ² /s | 8.7 |
| Pumpability, mPa.s | |
| at -35 °C | 27000 |
| Sulphated ash, % wt | 1.1 |
| TBN, mg KOH/g | 9.0 |
| Copper corrosion, 3 hr at 100 °C | 1a |
| Foam seq II | 20 / 0 |
| Noack volatility, % wt | 12.0 |
| Phosphorus, %wt | 0.1 |