



MOTUL 8100 ECO-CLEAN+ 5W-30



Gasoline & Diesel oil for Euro 4, 5 and 6 engines
Synthetic Technology

TYPE OF USE

High performance synthetic technology **Fuel Economy** Engine Oil specially designed for the latest generation cars, powered by Diesel and Gasoline engines, naturally aspirated or turbocharged, indirect or direct injection, Euro 4, 5 and 6 emission regulation compliant, requiring an ACEA C1 engine oil, low friction, low HTHS (< 3.5 mPa.s) viscosity oil and "Low SAPS" with reduced content of Sulfated Ash ($\leq 0.5\%$), Phosphorus ($\leq 0.05\%$) and Sulfur ($\leq 0.2\%$).

Suitable for any type of Diesel and Gasoline engines calling for "Fuel Economy" lubricants: ACEA C1 standard.

Compatible with catalytic converters and Diesel Particulate Filters (DPF).

May be unsuitable for use in some engines. Always refer to the owner manual or handbook if in doubt.

PERFORMANCES

| | |
|-----------------|--|
| STANDARDS | ACEA C1 |
| APPROVALS | FORD WSS-M2C934-B JAGUAR LAND ROVER STJLR.03.5005 |
| PERFORMANCES | JALOS DL-1 |
| RECOMMENDATIONS | MAZDA |

Engines compliant with Euro 4, 5 and 6 emission regulations are fitted with sensitive exhaust gas after treatment systems. Indeed, Sulfur and Phosphorus inhibit catalytic converters operation leading to inefficient exhaust gas treatment, and Sulfated Ashes clog DPFs leading to shorten regenerating cycle, quick oil aging, higher fuel consumption and engine power loss.

JLR - Jaguar and Land Rover, have introduced their own engine oil specifications under the **STJLR** banner and the FORD WSS-M2C934-B specification has now been morphed for Jaguar and Land Rover into the specification STJLR.03.5005.

The STJLR.03.5005 specification requires high level of oil film resistance, anti-oxidation, anti-wear and detergent/dispersant properties from the lubricant as well as a significant fuel economy performance: at least 3.0% Fuel Economy improvement versus a 15W-40 reference oil.

The STJLR.03.5005 specification applies to all JAGUAR and LAND ROVER latest generation of 2.2L TD4, 3.0L V6 Diesel engines with DPF produced from MY2012 and whenever the specification FORD WSS-M2C934-B is required from MY2006.

MAZDA recommendations require to use an approved JASO DL-1 or ACEA C1 lubricant in order to guarantee Fuel

We retain the right to modify the general characteristics of our products in order to offer to our customers the latest technical development.

Product specifications are definitive from the order which is subject to our general conditions of sale and warranty.

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Economy benefits and a perfect durability for most of their recent Diesel with DPF engines from MY2005. For Mazda SKYACTIV-D 2.2L engines from MY2012 the specification ACEA C3 in viscosity grades 0W-30 or 5W-30 is required, the product MOTUL 8100 X-clean FE 5W-30 is to be recommended.

ACEA C1 lubricants are environment friendly and reduce fuel consumption, minimizing green house gases (CO₂) emission and also achieve extended drain intervals managed by vehicles on-board computer.

RECOMMENDATIONS

Drain interval: according to manufacturers' recommendations and tune to your own use.

Do not mix with non ACEA C1 compliant lubricants.

Before use always refer to the owner manual of the vehicle.

PROPERTIES

| | | |
|---------------------------------|------------|-------------------------|
| Viscosity grade | SAE J 300 | 5W-30 |
| Density at 20°C (68°F) | | 0.849 |
| | ASTM D445 | 56.7 mm ² /s |
| Viscosity at 40°C (104°F) | | |
| | ASTM D445 | 10.1 mm ² /s |
| Viscosity at 100°C (212°F) | | |
| HTHS viscosity at 150°C (302°F) | ASTM D4741 | 3.2 mPa.s |
| | ASTM D2270 | 167.0 |
| Viscosity Index | | |
| | ASTM D97 | -39.0 °C / -38.0 °F |
| Pour point | | |
| Sulfated Ash | ASTM D874 | |
| | | % weight |
| | | 0.43 |
| TBN | ASTM D2896 | 4.8 mg KOH/g |
| Flash point | ASTM D92 | 232.0 °C / 450.0 °F |

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