



Technical Data Sheet

- Enhanced Fuel Economy
- Lower Emissions
- Maintenance Savings

Shell Rimula R7 AX 5W-30

Fully Synthetic Low HTHSV Heavy Duty Diesel Engine Oil

Shell Rimula R7 AX oil features “Low-SAPS”, high performing, efficient additive technology that is designed to deliver enhanced fuel economy and lower emissions benefits. Protection is enhanced with synthetic technology that significantly reduces engine friction and delivers extended maintenance intervals. Suitable for the very latest engine technologies.



Performance, Features & Benefits

• Fuel economy

Through the reduced High Temperature High Shear Viscosity (low HTHS), Shell Rimula R7 AX offers enhanced fuel economy capability* that can save money in fuel consumption, without compromising engine protection or durability. The product fulfils the Daimler MB 228.61 specification for enhanced fuel economy.

*e.g. compared to higher viscosity like SAE 15W-40, SAE 10W-40 SAE 10W-30 and SAE 5W-30 high HTHS viscosity grade.

• Emissions system compatibility

Advanced low-ash formulation helps control blocking or poisoning of exhaust after-treatment devices, helping maintain vehicle emission compliance and engine fuel efficiency.

• Maintenance saving

Shell Rimula R7 AX meets the long oil drain requirements from the latest Euro 6 engines, to allow operators to optimise maintenance schedules and control maintenance costs.

• Low wear, low deposits

The additive technology delivers high levels of piston cleanliness, essential for long engine life.

Main Applications



• On-highway heavy duty applications

Particularly suited for the latest Euro 6 engine technologies, like MB Trucks and Buses with OM 470, 471, 473, 934, 936, 936h engines, requiring a FA-4 quality diesel oil.

These products are not backward compatible, so cannot be used in older engines.

Specifications, Approvals & Recommendations

- API FA-4, SN
- Cummins CES 20087
- Detroit Fluids Specification (DFS) 93K223
- Mack EOS-5
- MB-Approval 228.61
- Renault VI RLD-5
- Volvo VDS-5

For a full listing of approvals and recommendations, please consult your local Technical Helpdesk.

Typical Physical Characteristics

Properties			Method	Shell Rimula R7 AX 5W-30
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	60
Kinematic Viscosity	@100°C	mm ² /s	ASTM D445	10
High Temperature High Shear Viscosity	@150°C	mPa s	ASTM D4741	2.9
Dynamic Viscosity	@-30°C	mPa s	ASTM D5293	5 400
Pour Point		°C	ASTM D97	-51

Properties		Method	Shell Rimula R7 AX 5W-30
Flash Point	°C	ASTM D92	236
Sulphated Ash	%	ASTM D874	0.98
Density	@15°C kg/m ³	ASTM D4052	843

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

• Health and Safety

Shell Rimula R7 AX oil is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <https://www.epc.shell.com>

• Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

• Advice

Advice on applications not covered here may be obtained from your Shell Representative.