



Shell Rimula R5 LE 10W-30

- Low Emissions
- Energy Saving

Synthetic Technology Heavy Duty Diesel Engine Oil

Shell Rimula R5 LE oils feature "Low-SAPS" additive technology while delivering energy savings. Protective power is enhanced through the use of synthetic base oil technology to deliver fuel economy performance with no compromise in durability.



Performance, Features & Benefits

- **Emissions system capability**
Advanced low-ash formulation helps control the blocking or poisoning of exhaust after-treatment devices, helping maintain vehicle emission compliance and engine fuel efficiency.
- **Fuel economy capability**
The use of synthetic base oil components provides Shell Rimula R5 LE with the capability to improve cold starting and reduce fuel consumption and save money, without compromising engine protection or durability.
- **Improved engine cleanliness**
The advanced formulation delivers good engine cleanliness and protection against piston deposits allowing Shell Rimula R5 LE to ensure engine and component reliability at extended oil drain intervals.

Main Applications



- **European heavy duty engines**
Shell Rimula R5 LE provides protection and performance in modern high power heavy-duty diesel engines from leading European engine makers such as Mercedes-Benz and MAN and where oils meeting ACEA E9 are called for.

Low emission engine use

Shell Rimula R5 LE meets the requirements of the major European and North American engine manufacturers for low emission applications.

Specifications, Approvals & Recommendations

- Caterpillar ECF-3, ECF-2
- Cummins CES 20086, 20081
- Deutz DQC III-10 LA
- MTU Category 2.1
- MAN M3575
- MB-Approval 228.31
- Volvo VDS-4.5, VDS-4
- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4, SN
- ACEA E9, E7
- JASO DH-2
- Detroit Fluids Specification (DFS) 93K222, 93K218
- Mack EOS-4.5, EO-O Premium Plus
- Renault Truck RLD-4, RLD-3

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

Typical Physical Characteristics

| Properties | | | Method | Shell Rimula R5 LE 10W-30 |
|---------------------|--------|--------------------|------------|---------------------------|
| Kinematic Viscosity | @40°C | mm ² /s | ASTM D445 | 81.8 |
| Kinematic Viscosity | @100°C | mm ² /s | ASTM D445 | 12.1 |
| Dynamic Viscosity | @-25°C | mPa s | ASTM D5293 | 6400 |
| Viscosity Index | | | ASTM D2270 | 141 |
| Total Base Number | | | ASTM D2896 | 10 |

| Properties | | Method | Shell Rimula R5 LE 10W-30 |
|-------------------|------------|------------|---------------------------|
| Sulphated Ash | % | ASTM D874 | 1 |
| Density | @15°C kg/l | ASTM D4052 | 0.863 |
| Flash Point (COC) | °C | ASTM D92 | 237 |
| Pour Point | °C | ASTM D97 | -43 |

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 R5 LE 10W-30 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 Material Safety Data Sheet, which can be obtained from <http://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.