



Shell Rimula R4

Multigrade Heavy Duty Diesel Engine Oils

- **UNIQUE ACTIVE TECHNOLOGY**
- **MODERN ENGINE – HIGH POWER USE**

Shell Rimula R4 Energised Protection oil uses exclusive combinations of the latest high performance additives to ensure that the oil adapts and protects under the full range of pressures and temperatures found in modern engines - from the high temperatures in the pistons, to the extreme loads found in the valve-trains. Featuring extra-active additives to control and sweep away harmful soot and particles found in high performance engines, it delivers excellent soot and viscosity control, outstanding protection against wear and exceptional versatility - one oil for fleets with multiple engine makes.



Performance Benefits

- **Outstanding Protection**
Featuring an exclusive additive system to ensure maximum soot handling, Shell Rimula R4 delivers excellent wear protection and long oil life in Euro 3, US 2002 and other advanced engines.
- **Demonstrated Performance for All Applications**
Shell Rimula R4 has been tested and proven in real-life applications, from severe duty operation in mining and construction operations to heavy duty haulage in some of the world's most severe environments.
- **Improved Engine Cleanliness**
The exclusive additive system delivers improved engine cleanliness and protection against piston deposits allowing Shell Rimula R4 to exceed the demanding requirements of most OEMs.

High Technology Low Emission Engines

Shell Rimula R4 is suitable for most modern low emission engines meeting Euro 4, 3, 2, and US 2002 emission requirements.

For the latest low emissions engines especially those fitted with exhaust diesel particulate traps (DPF), we recommend the use of our low-emissions products, Shell Rimula R4 L or Shell Rimula R6 LM/LME.

Applications



- **Severe duty heavy duty diesel engines**
Shell Rimula R4 provides demonstrated protection and performance in the latest high power heavy duty diesel engines from Europe, US and Japanese manufacturers in both on-highway and off-highway applications.

Specification and Approvals

Specification and Approvals	SAE Viscosity Grade
	R4 15W-40
API: CI-4, CH-4, CG-4, CF-4, CF	✓
ACEA: E7, E5, E3	✓
Global: DHD-1	✓
Caterpillar: ECF-1-A	✓
Cummins: CES 20078, 77, 76, 75, 72, 71	✓
DDC: 93K215	✓
MACK: EO-M, EO-M+	✓
MAN: M3275	✓
MB Approval: 228.3	✓
Renault Trucks: RLD-2	✓
Volvo: VDS-3	✓



Health and Safety

Shell Rimula R4 oils are unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

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

For further guidance on Product Health & Safety refer to the appropriate Shell Product Safety Data Sheet.

Protect the Environment

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

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell Representative.

Typical Physical Characteristics

Rimula R4	
SAE Viscosity Grade	R4 15W-40
Kinematic Viscosity (ASTM D 445) @ 40°C mm ² /s @ 100°C mm ² /s	109 14.7
Dyn. Viscosity (ASTM D 5293) @ - 20 °C mPa s	6700
Viscosity Index (ASTM D 2270)	139
Total Base Number mgKOH/g (ASTM D 2896)	10
Sulphated Ash % (ASTM D874)	1.2
Density @ 15°C kg/l (ASTM D 4052)	0.888
Flash Point (COC) °C (ASTM D 92)	230
Pour Point °C (ASTM D97)	-36

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