

Shell Rimula R4 L

- Low emissions
- Extra life-improved protection



Shell Rimula ENERGISED PROTECTION



ABOUT ENERGISED PROTECTION

You need to know your oil will protect your engine under all conditions. No matter how hot, cold, steep, dusty, muddy or extended your operations, you demand protection.

The Energised Protection of Shell Rimula heavy duty diesel engine oils provides protection in three critical areas:

1. **Acid control** — protects against corrosion from acids formed as fuel burns.
2. **Deposit control** — keeps engine clean for optimum performance and long life.
3. **Wear control** — keeps moving metal engine surfaces apart for long engine life.

Shell Rimula R4 L uses the latest generation technology to deliver significantly improved resistance to wear, deposits and oxidation. Shell Rimula R4 L offers the convenience of a single oil suitable for an extensive range of engine ages and vehicle types.

PROTECTIVE POWER

Shell Rimula R4 L provides operators with one of the highest levels of protection achievable in a conventional viscosity grade engine oil. In addition, the low SAPS formulation helps protect the catalysts and diesel particulate filters as well.

RELATIVE PROTECTION

	Acid/corrosion	Dirt and deposits	Wear
Shell Rimula R6 LM ■ Low emissions ■ Maintenance saving	✓✓✓	✓✓✓✓	✓✓✓✓
Shell Rimula R4 L ■ Low Emissions	✓✓	✓✓✓	✓✓✓
Shell Rimula R3 X Triple action resists: ■ Wear ■ Deposits ■ Heat	✓✓	✓✓	✓✓

Performance level is a relative indication only.

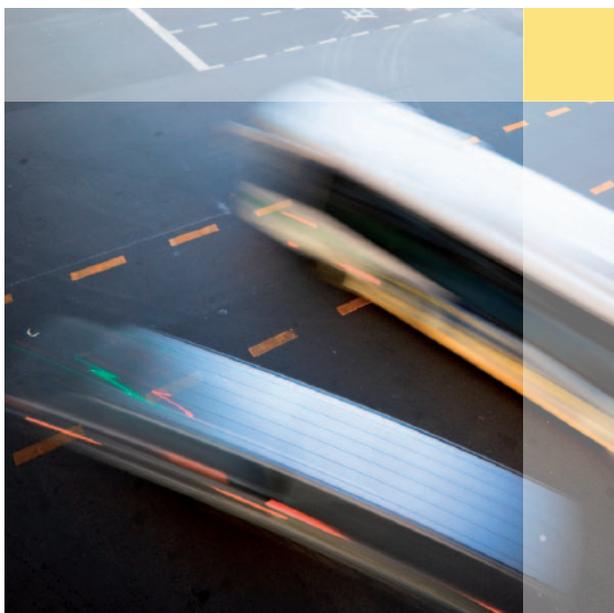
FOUR WAYS TO BENEFIT - TODAY

The introduction of Shell Rimula R4 L gives transport operators the chance to gain immediate benefits for their vehicles and business, whilst at the same time being ready for tomorrow.

Based on high performance Group II base oils, it is one of the most advanced 15W-40 oil technologies available – and suitable for virtually all vehicles. Operators can benefit from:

- ✓ **Improved wear and deposit control**
- ✓ **Improved oxidation resistance (oil life)**
- ✓ **Wide range of approvals**
- ✓ **Meets next generation specifications**

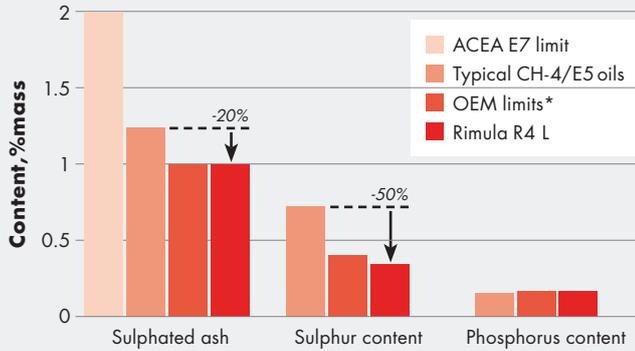
*Meets all available requirements (Jan 2008)



LOW EMISSIONS

Protecting the performance of your exhaust emissions control systems is not only important to ensure your vehicles comply with legislative requirements, but also to ensure efficient operations. For instance, blocked diesel particulate filters (DPF) can actually increase fuel consumption. Shell Rimula R4 L is formulated with reduced levels of ash and sulphur to help maintain the efficiency of the latest and future vehicle technologies.

Lower "SAPS" for reduced exhaust system impact



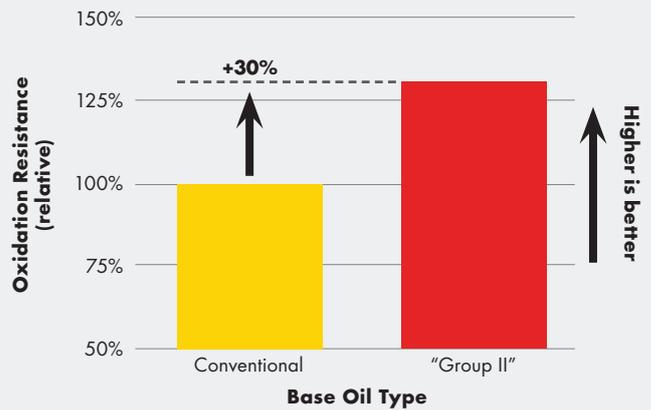
*MB 228.31 and Volvo VDS-4 limits

EXTRA LIFE

Shell Rimula R4 L is formulated to give exceptional resistance to breakdown by heat and mechanical stress to ensure continuous protection even under the most severe conditions.

Extra Heat Resistance: The action powerful anti-oxidants included in Shell Rimula R4 L are further enhanced through the use of high quality Group II base oils to provide increased resistance to breakdown by heat compared to previous generation oils (eg API CI-4/ACEA E7).

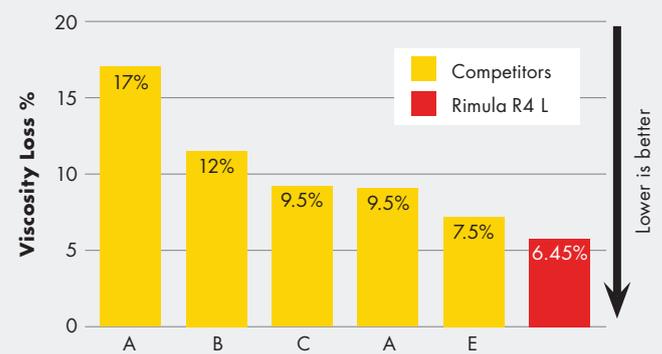
Enhanced Oxidation Resistance from Group II Base Oils



*Data from industry standard PDSC test using base oils with identical anti-oxidant content

Extra Stress Resistance: In common with other Shell top-tier heavy duty engine oils, Shell Rimula R4 L uses highly stable viscosity modifiers. These specially designed molecules resist being torn apart in the high stress areas of the engine such as valve and gear trains. Meaning that the oil retains its viscosity better than many other oils on the market for more consistent and reliable lubrication and protection.

Excellent Shear Stability



CEC 90 Cycle shear test



IMPROVED PROTECTION

Shell Rimula R4 L provides considerably higher levels of wear and deposit control than previous generation oils.

Extra Wear Protection: In the Cummins ISM engine test* Shell Rimula R4 L not only passes the requirements but shows visibly less wear than other oils that also meet the requirements of the test.

Cummins ISM Injector Screw: Visibly Less Wear



Cummins ISM
Passing Oil



Rimula R4 L

Shell Rimula R4 L provides significantly higher levels of wear protection than previous generation oils, exceeding the critical wear requirements in many areas, such as in the Cummins ISM test* with visibly less wear than passing oils.

(*Test included in API CJ-4, ACEA E9 (proposed) and Volvo and Mercedes-Benz low-SAPS specifications)

Virtually Sludge Free: Shell Rimula R4 L and its highly active ashless dispersants deliver exceptional cleanliness and deposit control and is proven in on-highway tests in over 25 million kilometers. For example, in Mercedes-Benz engines showing virtually no sludge in rocker covers or oil sumps allowing for more efficient engine operation and lower maintenance costs.

Rocker Cover from Mercedes-Benz engine



Excellent cleanliness after 750,000 KM on-highway service



SHELL RIMULA R4 L – APPLICATION GUIDE



Shell Rimula R4 L is suitable for virtually all on-highway truck, bus and coach applications including US 2007, Euro 2,3,4 and 5 applications. The exceptionally wide range of vehicle maker approvals allow Rimula R4 L to provide a single-oil lubrication solution for fleets with mixed vehicle makes, providing logistical and inventory benefits.



Shell Rimula R4 L provides an excellent solution for the lubrication of medium and light diesel powered commercial vehicles, especially those fitted with diesel particulate filters.

Shell Rimula R4 L meets the requirements of leading agricultural and construction equipment/engine makers such as Caterpillar, Cummins, Deutz and MTU.



SPECIFICATIONS AND APPROVALS

SAE Viscosity Grade: 15W-40

API: CJ-4, CI-4+, CI-4, CH-4, CG-4, CF-4, CF, (SM/SL/SJ/SH); ACEA: E9, E7; Caterpillar: ECF-2, ECF-3; Cummins: CES 20081, 77, 72, 71; Deutz: DQC III-05; DDC: 93K218; MACK: EO-O Premium Plus; JASO DH-2, MAN: M3575; MB Approval: 228.31; MTU: Category 2; Renault Trucks: RLD-3; Scania: LDF-LA, Volvo: VDS-4, VDS-3, IVECO T2 E7 (Meets).

OUR COMPLEMENTARY RANGE

In addition to the full range of Shell Rimula heavy-duty engine oils, Shell Lubricants also offers a complete portfolio of lubricants for every part of your equipment, including Shell Spirax gear, axle and transmission fluids and Shell Gadus greases.

HEALTH, SAFETY AND ENVIRONMENT

Health and safety

Shell Rimula R4 L 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.

For more information, please contact

Two large empty rectangular boxes with L-shaped corner brackets, intended for contact information.

shell.com/lubricants

