



Shell Lubricants

CONSTRUCTION

Shell Rimula R4* leads to US\$195,000 in savings through a 40% increase in oil drain intervals

Total reported annual customer saving

US\$195,000



Conirsa is a joint venture company contracted to build Sector 2 of the Interoceanic Highway, a vast road project that will link Peru and Brazil. The Brazilian Odebrecht (one of the largest construction companies in Latin America) has the largest share in this joint venture.

Company: Conirsa
Country: Peru
Application: Heavy-duty diesel engines
Saving: US\$195,000 total reported annual customer saving
Key edges: Shell Rimula R4* 15W-40, Shell LubeClinic

After a careful study of various suppliers, Conirsa selected Shell for the supply of lubricants for the whole operation: engines, transmissions, final drives, hydraulic and grease applications. In addition, Shell LubeClinic was installed allowing local staff to conduct on-site oil analysis and equipment monitoring.

Based on results gathered during more than a year, the customer concluded that using Shell Rimula R4* helped to extend oil drain intervals by 40% in the truck engines, to 350 hours. This led to annual savings of US\$195,000 as a result of lower lubrication and maintenance costs and less downtime of trucks.

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* Shell Rimula R4 is the new name for the Shell lubricant formerly known as Shell Rimula Super



1 The Challenge:

In the drive for improved efficiency, Conirsa sought to obtain savings by extending oil drain intervals in its heavy-duty engine trucks used in the off-highway construction site. The engines were operating at high altitudes and in temperatures ranging from 30°C to -10°C.

The challenge for Shell was to help the customer analyse the oil and equipment on-site and to provide a lubricant that would increase oil drain intervals while delivering high levels of engine protection in such operating conditions.

3 The Outcome:

As a result of the implementation of Shell LubeClinic and a trial using Shell Rimula R4*, Shell demonstrated that oil drain intervals could be safely extended by 40%, from 250 to 350 hours.

The customer went on to use Shell Rimula R4* across the 88 trucks in the construction site and obtained significant savings through:

- Reduction in oil consumption
- Reduction in maintenance costs
- Reduction in truck downtime
- Greater availability of the fleet

2 The Solution:

Shell recommended setting up a Shell LubeClinic to train the customer's staff, to carry out oil analysis and equipment monitoring directly at the construction site. Based on the data collected through a year long study, Shell recommended the high performance diesel engine oil – Shell Rimula R4* – designed to adapt and protect under various extreme conditions.

4 The Value:

Using Shell LubeClinic to train the staff and monitor the oil and equipment on-site and by using Shell Rimula R4* 15W-40 (CI-4), the customer obtained a 40% extension in oil drain intervals while maintaining engine protection.

When applying the product across the customer's 88 trucks on the construction site, the calculated total annual cost saving was US\$195,000.

The savings indicated are specific to the calculation date and site. These calculations may vary from site to site depending on application, operating conditions, current products being used, condition of the equipment and maintenance practices.

Shell Rimula R4*

Product description

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 features and 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.

Main 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.

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

Specifications, approvals and recommendations

API CI-4, CG-4, CF-4, CF; ACEA E7, E5;
Global DHD-1, Cummins CES 20071, 72, 76, 77, 78;
Cat ECF-1-A; DDC 93K215; Mack EO-M, EO-M+;
MAN 3275; MB Approval 228.3; Renault Trucks RLD-2; Volvo VDS-3

Complementary products

Equipment	Lubricants
Diesel Engine Oils	Shell Rimula
Axle Oils	Shell Spirax A/AX
Gear Oils	Shell Spirax G/GX
ATFs	Shell Donax TA, Rimula R6 LM, Retina HDX
Greases	Shell Retinax HD

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