



# LAFARGE READY MIX REDUCES OIL CONSUMPTION BY 54% WITH SHELL RIMULA R4 X

Total Reported Annual Customer Saving  
**310,000 USD**

**Company:** Ready-Mix Company

**Country:** Egypt

**Application:** Truck Mixers & Concrete Pumps

**Savings:** 310,000 USD total reported annual customer saving

**Key Edge:** Shell Rimula R4, Shell LubeAnalyst



A Leading ready mix company in Egypt operates a fleet of concrete readymix truck mixers, concrete pumps, loaders and generators at each working site. Customer was using competitor's CI-4 engine oil product at a drainage interval of 250 Hrs. Customer was seeking decreasing oil consumption and maintenance cost for all equipment.

Shell recommended using Shell Rimula R4 15W-40 (API CI-4) and Shell LubeAnalyst to closely monitor oil and engine condition in order to increase the oil drainage interval.

ODI increased to 600 Hrs in truck mixers and to 500 Hrs in pumps, loaders and generators, annual engine oil consumption decreased from 147 KLit to 67 KLit (54%), annual consumption of oil filters decreased by 54% , Downtime due to oil and filter change reduced from 1224 Hrs to 510 Hrs per year.

As a result, the company has reported a total saving of 1,760,000 EGP including the oil price ,spare parts that are changed with every oil drain and down time cost.

# 1

## CHALLENGE

The Company operates a fleet of heavy equipment working under harsh conditions. Engine oil drainage interval is 250 Hrs, and customer was seeking decreasing oil consumption and maintenance cost.

# 2

## SOLUTION

Shell recommended using Shell Rimula R4 15W-40 (API CI-4) and Shell LubeAnalyst to closely monitor oil and engine condition in order to increase the oil drainage interval

# 3

## OUTCOME

The Trial demonstrated annual engine oil consumption decrease by 54%, annual consumption of oil filters decreased by 54% , Downtime due to oil and filter change reduced from 1224 Hrs to 510 Hrs per year.

# 4

## VALUE

Changing to Shell Rimula R4 led to a reported annual cost saving for the customer of 309,078 USD\* as a consequence of reduced costs for maintenance, lubricant and filters.

\*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 practice



## SHELL RIMULA R4

### MULTIGRADE HEAVY-DUTY DIESEL ENGINE OILS

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 the harmful soot and particles found in high-performance engines, Shell Rimula R4 delivers excellent soot and viscosity control, and outstanding protection against wear. It also offers exceptional versatility; fleets with multiple engine makes need only one oil.



- 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 severest environments.
- Improved engine cleanliness. The exclusive additive system delivers improved engine cleanliness and protection against piston deposits, which enables Shell Rimula R4 to exceed the demanding requirements of most equipment manufacturers.

### Specification and approvals (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 M3275-1; MB Approval 228.3; Renault Trucks RLD-2; Volvo: VDS-3

### Applications

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

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

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

### 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.

### Complementary products

Equipment	Lubricants
Diesel engines	Shell Rimula
Axles	Shell Spirax
Gears	Shell Spirax
Automatic transmissions	Shell Spirax S2 ATF
Greases	Shell Gadus S2 V220AC Shell Gadus S3 V200C