



ARAB CONTRACTORS FOR MARINE CONSTRUCTION INCREASES OIL DRAIN INTERVALS WITH RIMULA R4 X

Total reported annual customer saving

472,000 USD

Company: Arab Contractors For Marine Construction

Country: Egypt

Application: Diesel Generators

Savings: 472,000 USD total reported customer saving

Key Edge: Shell Rimula , Shell LubeAnalyst



Arab Contractors is the leading construction company in middle east and Africa. Arab contractors for marine construction owns 6 medium size dredges equipped with CAT diesel generators (3512,3508 & 3406) working in high moisture environment 20 hours per day, and 100 gensets CAT 3406 working all over Egypt in very tough and harsh conditions, 24 hours per day in very dusty environments (deserts) and a high temperature climate. Customer was using Total Rubia15W-40 on 250 Hrs ODI.

Arab Contractors was seeking to reduce maintenance, operating cost and down time without decreasing generator reliability and performance.

The Shell technical team recommended using Shell Rimula R4 X 15W-40 oil for the Caterpillar generators to increase the oil-drain interval from 250 hrs to 400 hrs, and start a trial to increase the ODI to 500 Hrs.

The Shell experts also recommended the Shell LubeAnalyst service to help determine the optimal oil-drain interval and monitor oil and engines condition.

As a result, the company has reported a total saving of 471,988 USD.

1**CHALLENGE**

Arab Contractors operates a total of 118 Diesel generators in very tough and harsh conditions working 20 hours/day with oil-drain interval of 250 Hrs

2**SOLUTION**

Shell Technical team recommended Shell Rimula oil to increase the oil-drain interval and using Shell LubeAnalyst service to help determine the optimal oil-drain interval and monitor oil and engines condition.

3**OUTCOME**

Arab Contractors has increased its oil-drain interval and reduced maintenance and operating cost

4**VALUE**

Changing to Shell Rimula led to a reported annual cost saving for the customer of 471,988 USD* as a consequence of reduced oil consumption & 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 CH-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