
Shell Rimula R5 E

Shell
RIMULA
Heavy Duty Diesel Engine Oil



The Shell Rimula family

Shell Rimula heavy-duty diesel engine oils have been developed for the latest on and off-highway vehicles. They meet the latest industry and original equipment manufacturers' (OEM) approval requirements.

Shell Rimula oils are designed to protect engines, thereby helping to lower maintenance and fuel costs, and increase reliability to keep vehicles running.

Whether businesses/consumers want to cut the cost per kilometre of their long-haul trips by reducing fuel consumption or to extend short-haul vehicles' lives under severe start-stop driving conditions, the Shell Rimula range is specially developed to help meet their needs.

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Introducing Shell Rimula R5 E

Shell Rimula R5 E offers superior protection to improve engine and oil durability in three critical areas:

- Acid control – protects against corrosion from the acids formed as fuel burns
- Deposits – keeps engines clean for optimum performance and long life
- Engine wear – keeps moving metal engine surfaces apart for long engine life.



Introducing Shell Rimula R5 E

This member of the Shell Rimula family of heavy-duty diesel engine oils uses an advanced combination of high-performance additives to help deliver fuel economy and protect under the full range of operating pressures and temperatures found in modern engines.

Energy saving

- Fuel economy capability*

Long life protection

- Enhanced resistance to breakdown**
- Superior low-temperature lubrication*

*Compared with SAE 15W-40 oils

**Compared with API CH-4/ACEA E3 competitor oils (PDSC oxidation test)

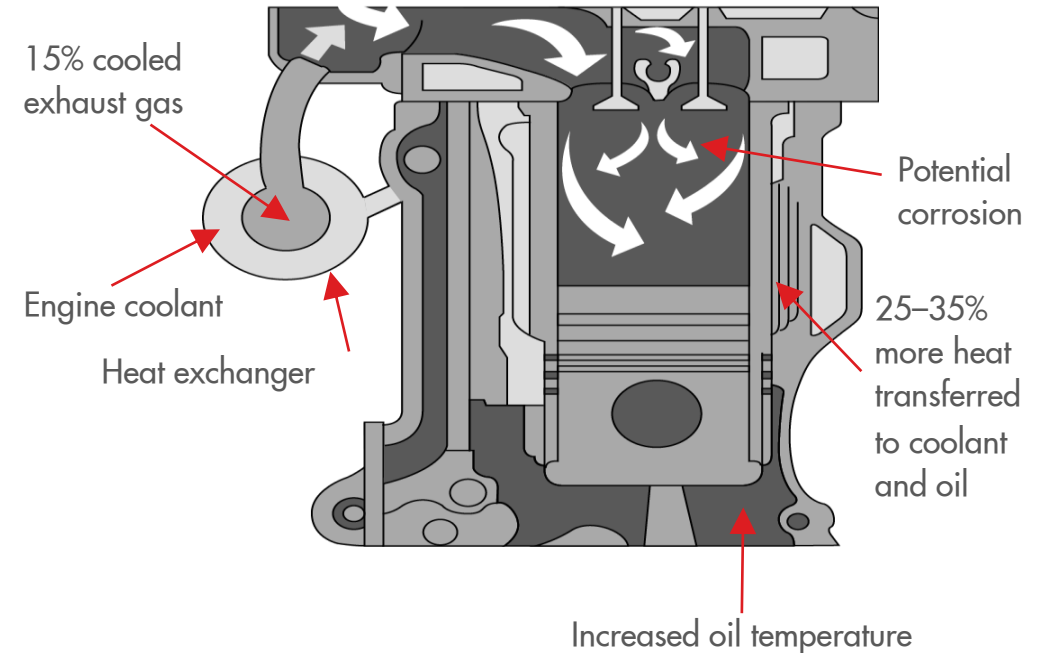
Shell Rimula R5 E

Shell Rimula R5 E has been developed to benefit today's engines. It contains carefully selected additives that are designed and optimised to provide performance in the key areas of piston and engine cleanliness, and engine wear. It is especially suited to engines that are fitted with exhaust-gas recirculation (EGR).



Shell Rimula R5 E in engines equipped with EGR

- EGR introduces some exhaust gas into the inlet air charge to reduce peak combustion temperatures.
- These gases contain acids (sulphurous and sulphuric) and soot particles that can have a detrimental effect on oil performance in terms of corrosion and soot-induced wear. EGR leads to higher oil temperatures, which stress the oil further.



EGR increases heat transfer and potential corrosion, so the lubricant must prevent corrosion and oil oxidation.

Shell Rimula R5 E

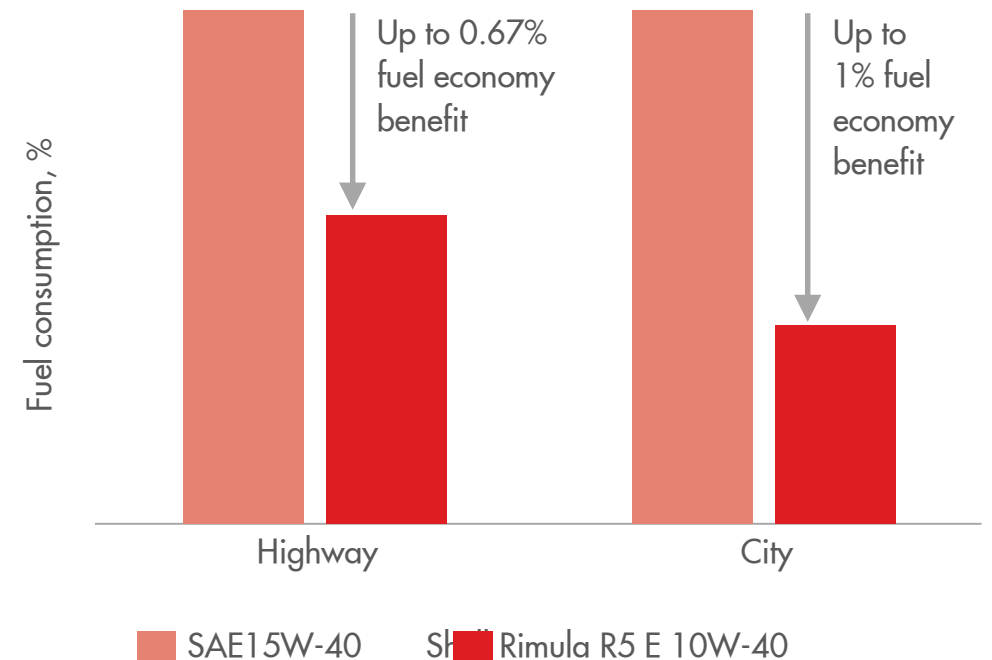
Developed to benefit today's truck and bus engines and vehicle technologies, Shell Rimula R5 E offers:

- An advanced additive system featuring an optimised detergent for engine cleanliness and soot dispersant system for engine cleanliness and soot handling. Shell Rimula R5 E delivers excellent wear protection and long oil life in US 2002, Euro 2, 3 and most Euro 4 and 5 and other advanced engines.
- Synthetic technology. The use of synthetic base oil components provides Shell Rimula R5 E with the ability to improve cold starting and reduce fuel consumption, thereby saving money, without compromising engine protection or durability.
- A wide range of OEM approvals. Shell Rimula R5 E exceeds the demanding requirements of most OEMs, which makes it ideal for fleet applications.

Shell Rimula R5 E – Energy saving

In laboratory tests, synthetic technology 10W-40 oils such as Shell Rimula R5 E have been shown to improve fuel economy by up to 1% compared with an SAE 15W-40 oil.

Fuel consumption measured under on-highway and city driving conditions in a MAN Euro 4 engine test rig – comparison of Shell Rimula R5 E 10W-40 with SAE 15W-40 oil

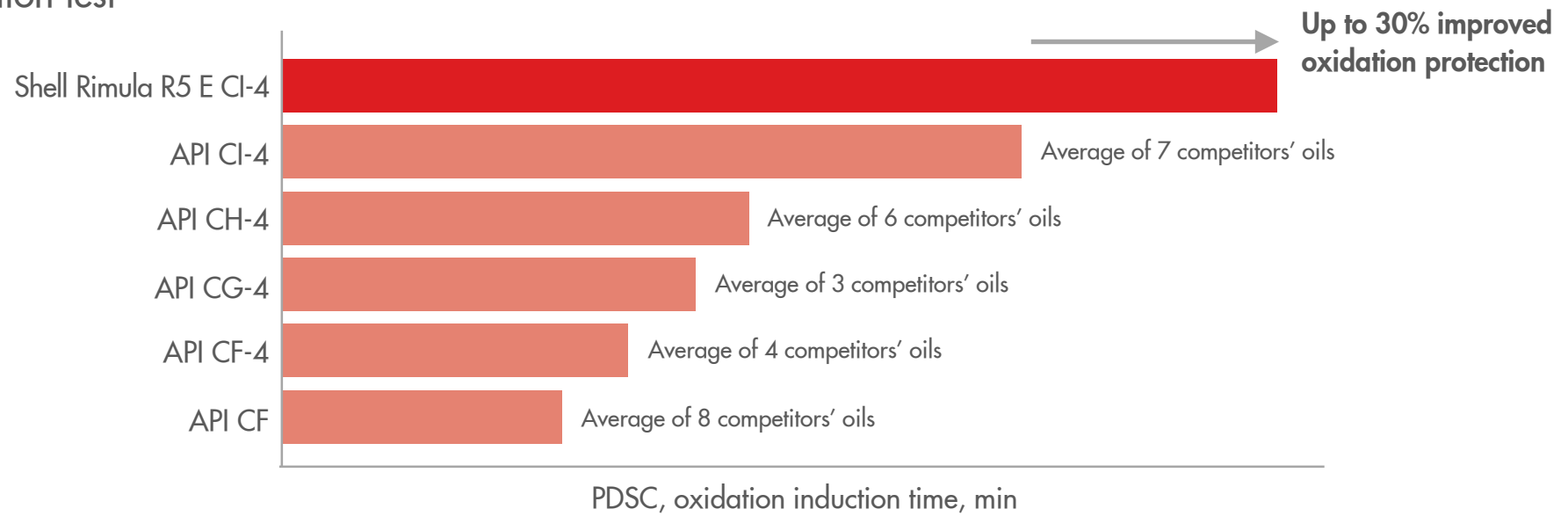


Shell Rimula R5 E – Long life protection

Shell Rimula R5 E 10W-40

- Resists breakdown up to 30% longer than the average of several competitors' API CI-4 oils.
- Helps to ensure consistent protection and longer oil life.

PDSC oxidation test



Competitor oils from Latin America, Thailand and China

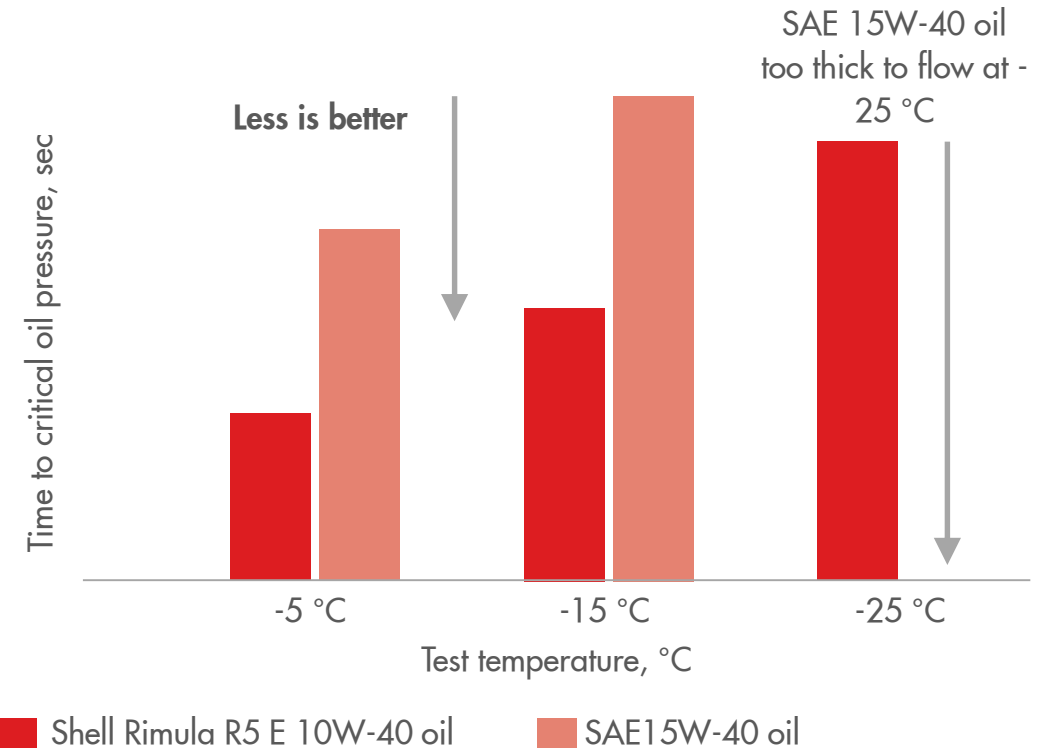
Shell Rimula R5 E – Long life protection

Compared with standard SAE

15W-40 oils, Shell Rimula R5 E 10W-40 can

- Help to improve the flow of oil to the furthest parts of the engine under low-temperature start-up conditions
- Reach the critical bearings up to 48% faster under freezing conditions
- Help to provide extra protection at temperatures where conventional oils may fail to pump.

Shell 10W-40 synthetic technology oil fuel economy benefits



Tests carried out by an independent laboratory. Pumping times measured in a US 2002 emission compliant heavy-duty diesel engine fitted with pressure sensors in the oil galleries.

Performance features and benefits

Applications

High-power severe-duty

EGR turbo and intercooled engines

Euro 2, 3, 4 and Euro 5** engines

Protective power

Acid and corrosion ✓✓✓

Dirt and deposits ✓✓✓

Wear ✓✓✓

- Contains enhanced activity high-performance additives and synthetic base oils for wear and acid control
- Fuel saving capability* without compromising durability.
- Suitable for US 2002 and most Euro 2 to 5** engines

*Compared with standard 15W-40 grades

**For vehicles fitted with diesel particulate filters, Shell recommends Shell Rimula R6 "L" series oils



Q&A

