



Shell Rimula R4 X 15W-40

(CI-4/E7/DH-1)

- Triple Protection

Heavy Duty Diesel Engine Oil

Shell Rimula R4 X contains selected additives that are designed to provide Triple Protection to improve engine and oil durability in 3 critical areas: Acid and Corrosion Control, Reduced Engine Wear and Deposit Control. It helps to lower maintenance and increase reliability of vehicles. It is suitable for most heavy-duty diesel engines, non turbocharged and turbocharged alike, for on and off highway applications and has a wide array of engine manufacturers' approvals.



ENERGISED PROTECTION
Adapting to your engine's changing needs

Performance, Features & Benefits

▪ Acid and Corrosion Control

Shell Rimula R4 X shows excellent control of acids by reducing the accumulation of acids and chemical corrosion of engine bearings. Harmful acids from fuel combustion are controlled by using selected detergent additives to neutralise them and help to prevent corrosion of metal surfaces.

▪ Reduced Engine Wear

Shell Rimula R4 X offers high levels of engine wear protection in the critical areas of the valve train, piston ring and cylinder liners. This wear control is achieved through the addition of anti-wear additives that are designed to form protective films in metal-to-metal contacts when needed under different engine operating conditions, and by the use of soot dispersant additives to keep soot particles finely dispersed to help prevent wear.

▪ Deposit Control

Shell Rimula R4 X helps to prevent oil thickening and the formation of harmful deposits in all areas of the engine, including sludge and piston deposits. The optimised detergent and dispersant additive system for Shell Rimula R4 X keeps engines cleaner than previous-generation Shell Rimula R3 products.

▪ Severe duty heavy duty diesel engines

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

▪ High Technology Low Emission Engines

Shell Rimula R4 X is suitable for most modern low emission engines meeting Euro 5, 4, 3, 2, and US 2002 emission requirements.

For the latest low emissions engines especially those fitted with exhaust diesel particulate filters (DPF), we recommend the use of our low-emissions products, Shell Rimula R4 L or Shell Rimula R5 LE.

Specifications, Approvals & Recommendations

- API: CI-4, CH-4, CG-4, CF-4, CF.SL
- ACEA: E7, E5, E3
- Global DHD-1
- Caterpillar: ECF-2, ECF-1-A
- Cummins: CES 20078,77,76,75,72,71
- DDC: 93K215
- Deutz: DQC III-10
- IVECO: T1
- JASO: DH-1
- Mack: EO-M+, EO-M
- MAN: M3275-1
- MB Approval: 228.3

Main Applications



- MTU: Category 2
- Renault Trucks: RLD-2
- Volvo: VDS-3

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Help Desk, or the OEM Approvals website.

Typical physical characteristics

Properties			Method	Shell Rimula R4 X
SAE Viscosity Grade				15W-40
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	109
Kinematic Viscosity	@100°C	mm ² /s	ASTM D445	14.7
Dynamic Viscosity	@-20°C	mPas	ASTM D5293	6700
Viscosity Index			ASTM D2270	139
Total Base Number			mgKOH/g	10.5
Sulphated Ash			%	1.45
density	@15°C	kg/l	ASTM D4052	0.888
Flash Point	COC	°C	ASTM D92	230
Pour Point			°C	-36

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health, Safety & Environment

Health and Safety

Shell Rimula R4 X is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative.

Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

Advice

Advice on applications not covered here may be obtained from your shell representative.