



Technical Data Sheet

- Triple action
- Resists wear, deposits and heat

Shell Rimula R3 X 15W-40 (CH-4/DH-1)

Multigrade Heavy Duty Diesel Engine Oil

Shell Rimula R3 X Energised Protection oils feature modern high-performance lubricant chemistry specifically designed to protect against the changing needs of your driving conditions. This unique adaptive technology features multi-component systems to provide triple action protection; low wear for long engine life, low deposit formation to maintain engine performance and resists breakdown by heat for continuous protection.

With a wide array of engine maker approvals, it is suitable for virtually all heavy duty engines, non-turbocharged and turbocharged alike, in on and off-highway service.



ENERGISED PROTECTION
Adapting to your engine's changing needs

Performance, Features & Benefits

■ Unique formulation

Shell Rimula R3 X uses exclusive formulations that have been proven in real world service to ensure the efficiency and life of your engine.

■ Engine cleanliness

High thermal stability provides a high standard of protection against piston deposits which, together with high performance dispersants, delivers excellent control of sludge and deposits in the engine.

■ Low engine wear

The combination of active anti-wear additives and good engine cleanliness controls engine wear, gives long engine life, maintains engine power and efficiency and lowers servicing costs.

■ High temperature protection

Shell Rimula R3 X has been demonstrated to resist thermal breakdown ensuring continued protection throughout the drain interval, even under severe conditions found in modern engines.

■ Construction and mining

Shell Rimula R3 X is recommended for most engine types found in construction and mining equipment, even where higher sulphur fuels are used.

■ Agricultural equipment

Shell Rimula R3 X is ideally suited for the stop-start service found in agricultural operation and protects against bearing wear and deposit formation even under these severe conditions.

Specifications, Approvals & Recommendations

- Cummins: CES 20077, 76, 75, 72, 71
- Iveco T2 E5 (Meets specification)
- MACK: EO-M, EO-M+
- MAN: M3275-1
- MB Approval: 228.3
- MTU: Category 2
- Renault Trucks: RD-2
- Volvo: VDS-2
- Allison C-4 (Meets requirements)
- API: CH-4, CG-4, CF-4, CF
- ACEA: E5, E3
- JASO: DH-1

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

Main Applications



■ On-highway heavy duty trucks

With a wide range of OEM approvals, Shell Rimula R3 X is suitable for virtually all heavy duty engines.

Typical Physical Characteristics

Properties			Method	Shell Rimula R3 X 15W-40 (CH-4/DH-1)
Viscosity Grade				15W-40
Kinematic Viscosity	@40°C	mm ² /s	ASTM D 445	105.4
Kinematic Viscosity	@100°C	mm ² /s	ASTM D 445	14.3
Dynamic Viscosity	@-20°C	mPa s	ASTM D 5293	6750
Viscosity Index			ASTM D 2270	139
Density	@15°C	kg/l	ASTM D 4052	0.888
Flash Point			ASTM D92	233
Pour Point			ASTM D97	-33
TBN	Mg KOH/g		ASTM D 2896	11.5
TBN	Mg KOH/g		ASTM D 4739	11.2
Sulphated Ash	%		ASTM D 874	1.59

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 R3 X oils are unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

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

■ Protect the Environment

Take used oil to an authorized 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.