



Shell Rimula R3 X

Multigrade Heavy Duty Diesel Engine Oils

TRIPLE ACTION – RESISTS
● WEAR ● DEPOSITS ● HEAT

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.



Performance Benefits

- **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 control 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.

Shell Rimula R3 X is recommended for most engine types found in construction and mining equipment such as Caterpillar, Cummins, Detroit Diesel (4-cycle), MTU and Komatsu engines. It is formulated to provide continuous protection 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 deposits.

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.
- **Construction and Mining**

Specification and Approvals

Specification and Approvals	SAE Viscosity Grade	
	15W-40	20W-50
API: CH-4, CG-4, CF-4, CF	✓	✓
ACEA: E5, E3	✓	✓
Caterpillar: ECF-1-A	✓	
Cummins: CES 20075, 72, 71	✓	✓
Cummins: CES 20076, 77	✓	
DDC: 93K215	✓	
IVECO T2 E5 (1)	✓	
MACK: EOM	✓	✓
MACK: EOM+	✓	
MAN: M3275-1	✓	✓
MB Approval: 228.3	✓	✓
MTU: Category 2	✓	
Renault Trucks: RD-2	✓	
Volvo: VDS-2	✓	



Meets req: Allison C-4	✓	
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(1)Meets Iveco Specification

For further guidance on Product Health & Safety refer to the appropriate Shell Product Safety Data Sheet.

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.

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell Representative.

Typical Physical Characteristics

Rimula R3 X		
SAE Viscosity Grade	15W-40	20W-50
Kinematic Viscosity (ASTM D 445) @ 40 °C mm ² /s 100 °C mm ² /s	105.1 14.3	147.3 17.5
Dyn. Viscosity (ASTM D 5293) @ -15 °C mPa s @ -20 °C mPa s	6600	6450
Viscosity Index (ASTM D 2270)	139	130
Density @ 15°C kg/l (ASTM D 4052)	0.886	0.893
Flash Point (COC) °C (ASTM D92)	230	235
Pour Point °C (ASTM D 97)	-39	-36
Total Base Numer Mg KOH/g (ASTM D2896)	10.8	10.8
Sulphated Ash % (ASTM D874)	1.44	1.44

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