



# Shell Rimula R3 X 15W-40

- Triple action
- Resists wear, deposits and heat

## Heavy Duty Diesel Engine Oil

Shell Rimula R3 X oils protect against the changing needs of your driving conditions. It provides triple action protection; low wear for long engine life, low deposit formation to maintain performance and resists breakdown by heat for protection.



### Performance, Features & 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 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 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.

### Specifications, Approvals & Recommendations

- Caterpillar ECF-2, 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
- MTU Category 2
- Deutz DQC II-05
- Volvo VDS-2
- API CH-4, CG-4, CF-4, CF
- ACEA E7, E5, E3

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

### 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
Kinematic Viscosity	@40°C	mm <sup>2</sup> /s	ASTM D445	105.1
Kinematic Viscosity	@100°C	mm <sup>2</sup> /s	ASTM D445	14.3
Dynamic Viscosity	@-15°C	mPa s	ASTM D5293	-
Dynamic Viscosity	@-20°C	mPa s	ASTM D5293	6600

Properties		Method	Shell Rimula R3 X 15W-40
Viscosity Index		ASTM D2270	139
Density	@15°C kg/l	ASTM D4052	0.886
Flash Point (COC)	°C	ASTM D92	230
Pour Point	°C	ASTM D97	-39
Total Base Number	Mg KOH/g	ASTM D2896	10.8
Sulphated Ash	%	ASTM D874	1.44

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.