



## Technical Data Sheet

# Shell Rimula R3 X 15W-40

## 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.



- Triple Action
- Resists wear, deposits and heat

## 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.

### • On-highway heavy duty trucks

Shell Rimula R3 X is suitable for virtually all heavy duty engines.

### • Construction and mining

Shell Rimula R3 X is recommended for most engine types found in construction and mining equipment. 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

- API CH-4, CG-4, CF-4, CF
- MB-Approval 228.3

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

## Main Applications



## Typical Physical Characteristics

Properties			Method	Shell Rimula R3 X 15W-40
Kinematic Viscosity	@40°C	mm <sup>2</sup> /s	ASTM D445	98.5
Kinematic Viscosity	@100°C	mm <sup>2</sup> /s	ASTM D445	13.7
Dynamic Viscosity	@-20°C	mPa s	ASTM D5293	6 600
Viscosity Index			ASTM D2270	140
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.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <https://www.epc.shell.com>

- **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.