



# Shell Rimula R3 Turbo 15W-40

- Triple Action
- Resists Wear, Deposits and Heat

## Multigrade Heavy Duty Diesel Engine Oils

Shell Rimula R3 Turbo Energised Protection oils feature proven lubricant chemistry specifically designed to protect against the changing needs of your driving conditions. This adaptive technology features enhanced additive systems to control thickening and wear caused by soot and other debris that can build up in the oil, to provide low wear for long engine life and cleanliness to maintain engine performance.

With a wide array of engine maker approvals, it is suitable for most heavy duty engines non-turbo-charged and turbo-charged alike.



## Performance, Features & Benefits

### • Equipment manufacturer acceptance

Shell Rimula R3 Turbo oils are approved for use in a variety of engine applications by leading OEMs.

### • Engine cleanliness

The high thermal stability and oil oxidation resistance provide a high standard of protection against piston deposits. Engine cleanliness is further enhanced through use of high performance dispersants to control sludge and deposits in other parts of 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.

## Main Applications



### • On-highway heavy duty trucks

With a wide range of OEM approvals, Shell Rimula R3 Turbo oils are suitable for most heavy duty engines found in on-highway applications.

Shell Rimula R3 Turbo is suitable for use with biodiesel per the OEM recommended oil drain intervals.

### • Construction and mining

Shell Rimula R3 Turbo is recommended for most engine types found in construction and mining equipment such as Caterpillar, Cummins, Detroit Diesel (4-cycle), MTU and Komatsu engines.

### • Agricultural equipment

Shell Rimula R3 Turbo 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.

For more severe operation or application in modern low emission engines we recommend Shell Rimula R4 or Rimula R5 multigrade oils.

## Specifications, Approvals & Recommendations

- Caterpillar ECF-1-A
- Cummins CES 20076, 71
- MACK EO-M+, EO-M
- MAN 271
- MB-Approval 228.1
- Volvo VDS
- API CH-4, CG-4, CF-4, CF
- ACEA E2

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

## Typical Physical Characteristics

Properties			Method	Shell Rimula R3 Turbo 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	@-20°C	mPa s	ASTM D5293	6 600
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	-36
Total Base Number		mg KOH/g	ASTM D2896	9.2
Sulphated Ash		%	ASTM D874	1.25

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 Turbo (CH-4/228.1) 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 Safety Data Sheet, which can be obtained from <https://www.epc.shell.com>

### • 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.