



# Shell Rimula R2 Extra 15W-40 (CG-4/228.1)

• Turbo-charger Performance

## Multigrade Heavy Duty Diesel Engine Oils

Shell Rimula R2 Extra Energised Protection oils use proven combinations of additives that react to the varying needs of your engine. They include active dispersants to carry away dirt, keeping the engine clean. Each dedicated additive releases its protective energy when needed, to ensure reliable and consistent protection against deposits and wear and to resist thickening by heat. Approved by leading engine makers, suitable for most heavy duty applications including turbo-charged engines.



### Performance, Features & Benefits

- Multigrade benefits**  
 Compared to monograde oils, Shell Rimula R2 Extra can deliver the user a range of benefits associated with the use of multigrade oils. These include reduction of oil consumption by up to 30%\*, longer oil life and improved fuel economy. \*As stated by a leading engine maker.
- Protection for turbo-charged engines**  
 Unlike some lower cost multigrade oils, Rimula R2 Extra can be confidently used in many turbo-charged engines to provide protection and long engine life.
- Piston cleanliness**  
 Shell Rimula R2 Extra exceeds the normal standards of piston cleanliness associated with some API CG-4 oils - the use of modern formulation chemistry delivers piston cleanliness that meets the standards of Mercedes-Benz 228.1, guaranteeing the user consistently high performance in a range of applications.
- Major engine manufacturer acceptance**  
 Shell Rimula R2 Extra meets the recommendation of many major automotive engine builders in Europe and America, providing flexibility to vehicle and equipment owners.

### Main Applications



- Automotive diesel engines**  
 Shell Rimula R2 Extra is the ideal choice for a wide range of turbo-charged and non-turbocharged engines under normal operation. It is particularly recommended for use in older Mercedes-Benz trucks and buses as well as for cost effective lubrication in off-highway applications such as agricultural tractors.  
 For more severe operation or application in modern low emission engines we recommend Shell Rimula R3 or Shell Rimula R4 multigrade engine oils.

### Specifications, Approvals & Recommendations

- Volvo VDS
- MB Approval 228.1
- API CG-4, CF-4, CF
- ACEA E2
- MAN 271

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

### Typical Physical Characteristics

Properties			Method	Shell Rimula R2 Extra (CG-4/228.1)
SAE Viscosity Grade				15W-40
Kinematic Viscosity	@40°C	mm <sup>2</sup> /s	ASTM D445	102
Kinematic Viscosity	@100°C	mm <sup>2</sup> /s	ASTM D445	14.4

Properties			Method	Shell Rimula R2 Extra (CG-4/228.1)
Dynamic Viscosity	@-20°C	mPa s	ASTM D5293	6400
Viscosity Index			ASTM D2270	143
Density	@15°C	kg/l	ASTM D4052	0.887
Flash Point (COC)		°C	ASTM D92	226
Pour Point		°C	ASTM D97	-33
Total Base Number		mg KOH/g		8.2

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 R2 Extra (CG-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 Material Safety Data Sheet, which can be obtained from <http://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.