



Technical Data Sheet

- *Reliable Lubrication*
- *Easy Pumping Formulation*

Shell Rimula R1 Multi 20W-40 (CF-4)

Multigrade Heavy Duty Diesel Engine Oils

Shell Rimula R1 Multi 20W-40 Energised Protection oil uses proven performance additives to fight engine wear. Special molecules continuously adapt to ensure the oil maintains the right thickness from start-up to full temperature operation ensuring easy pumping for continuous protection and consistent performance. Use of Shell Rimula R1 Multi 20W-40 can result in lower fuel consumption*. Suitable for day-to-day use in older turbocharged or non-turbocharged engines. *Compared to standard SAE 40 oils.



ENERGISED PROTECTION
Adapting to your engine's changing needs

Performance, Features & Benefits

- **Engine cleanliness**
Shell Rimula R1 Multi 20W-40 Oil incorporates an advanced detergent additive system to control piston deposits and maintain good standards of engine cleanliness.
- **Good engine protection**
Enhanced protection against corrosion and wear.
- **High TBN retention – oil life**
High Total Base Number retention to ensure protection throughout the oil drain period.

■ Off-highway operation

Shell Rimula R1 Multi 20W-40 Oil is suitable for use in a variety of off-highway applications.

Specifications, Approvals & Recommendations

■ API : CF-4

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk, or the OEM Approvals website.

Main Applications



■ Automotive diesel engines

Shell Rimula R1 Multi 20W-40 Oil is suitable for use in older turbo-charged or non-turbocharged engines of light/medium duty burning low sulphur, distillate fuels.

Typical Physical Characteristics

Properties			Method	Shell Rimula R1 Multi (CF-4)
SAE Viscosity Grade				20W-40
Kinematic Viscosity	@40°C	mm ² /s	ASTM D 445	126.9
Kinematic Viscosity	@100°C	mm ² /s	ASTM D 445	14.31
Dynamic Viscosity	@-15°C	mPa*s	ASTM D 5293	7000
Viscosity Index			ASTM D 2270	112
Density	@15°C	kg/l	ASTM D 4052	0.89
Flash Point (COC)			ASTM D 92	240

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 R1 Multi (CF-4) 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.