Technical Data Sheet

Shell **Rimula R4 Multi** *10W-30*

- Triple Protection

Heavy-Duty Diesel Engine Oil

Shell Rimula R4 Multi oil protects against changing needs of driving conditions. This technology provides triple action protection: low wear for long engine life, low deposit formation to maintain engine performance and resist breakdown by heat.

DYNAMIC PROTECTION

Performance, Features & Benefits

- **Equipment Manufacturer Acceptance**
  Shell Rimula R4 Multi oil is 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.
- **Long Engine Wear**
  The combination of active anti-wear additives and good engine cleanliness controls engine war, gives long engine life, maintains engine power and efficiency and lowers servicing costs.
- **Dedicated Diesel Engine Oil Performance**
  Shell Rimula R4 Multi 10W-30 is the ideal choice for a wide range of turbo-charged and non turbo-charged engines under normal operation. It is particularly recommended for use in off-highway applications such as agricultural tractors and mining operations.
- For equipment fitted with diesel particulate filters, we recommend Shell Rimula R5 LE multigrade engine oil.

Main Applications



Specifications, Approvals & Recommendations

- API CI-4, CH-4, CG-4, CF-4, CF
- Caterpillar ECF-1A, ECF-2
- Cummins CES 20078, 76, 75, 72, 71
- MACK EO-M, EO-M+
- JASO DH-1
- CNH MAT 3520 (meets specification)

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

Typical Physical Characteristics

Properties			Method	Shell Rimula R4 Multi 10W-30
Kinematic Viscosity	@ 40°C	mm2/s	ASTM D445	79.78
Kinematic Viscosity	@ 100°C	mm2/s	ASTM D445	12.0
Dynamic Viscosity	@ -25°C	mPa s	ASTM D5293	6 730
Viscosity Index			ASTM D2270	145
Density	@ 15°C	kg/l	ASTM D4052	0.867
Flash Point (COC)		°C	ASTM D92	228
Pour Point		°C	ASTM D97	-42
Total Base Number		mgKOH/g	ASTM D2896	10.6
Sulphated Ash		%	ASTM D874	1.5

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 R4 Multi 10W-30 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 your Shell representative.

- **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 www.epc.shell.com