Technical Data Sheet

- Extra Performance

Shell **Rimula** ***R3+ 40***

Heavy Duty Diesel Engine Oil

Shell Rimula R3 oils adapts to your driving needs to provide extra protection and keep pistons and other engine parts clean. It provides protection against wear for long engine life and protection against deposits for efficient engine performance.

DYNAMIC PROTECTION

Performance, Features & Benefits

- **Equipment manufacturer acceptance**
  Shell Rimula R3 monogrades are approved for use in a variety of engine applications by leading OEMs.
- **High standard of piston cleanliness**
  The high thermal stability and oil oxidation resistance provide a high standard of piston cleanliness.
- **Low engine wear and long component life**
  Overall engine cleanliness contributes to low engine wear, long component life, maintenance of power output, more operational stability and lower servicing costs.

Main Applications



- **Dedicated diesel engine oil performance**
  Shell Rimula R3 monogrades have been formulated to provide robust engine performance in a variety of off-highway applications or older on-highway diesel vehicles.
- **Construction industry application**
  Engine oil technology is sometimes specified for use in the transmission and hydraulic applications. Shell Rimula R3 monogrades offer premium performance and protection for these applications.
- **Stationary equipment**
  Shell Rimula R3 monogrades are suitable for certain stationary equipment, such as pumps, that run continuously under steady state conditions.

  Shell Rimula R3+ 40 is suitable for use with biodiesel per the OEM recommended oil drain intervals

Compatibility & Miscibility

- Shell Rimula R3 oils should not be used in Detroit Diesel two-stroke engines. An SAE 40 oil meeting the API CF-II Specification and having a sulphated ash content of less than 1% should be used.

Specifications, Approvals & Recommendations

- API CF
- ACEA E2
- MAN 270
- MTU Category 1
- Meets the requirements of MB 228.0 (obsolete)

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

Typical physical Characteristics

Properties			Method	Shell Rimula R3+ 40
Kinematic Viscosity	@40°C	mm^2/s	ASTM D445	126
Kinematic Viscosity	@100°C	mm^2/s	ASTM D445	13.5
Viscosity Index			ASTM D2270	102
Density	@15°C	kg/l	ASTM D4052	0.895
Flash Point (COC)		°C	ASTM D92	250
Pour Point		°C	ASTM D97	-15

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+ Oil 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.