Technical Data Sheet

- Engine Efficiency

Shell **Rimula** ***R5 E 10W-40***

Advanced Performance Heavy Duty Diesel Engine Oil

Shell Rimula R5 E oils protect under full range of pressures and temperatures. Enhanced with the use of advanced base oils to deliver engine efficiency, excellent soot and viscosity control, outstanding protection against wear and exceptional versatility.

DYNAMIC PROTECTION PLUS

Performance, Features & Benefits

- **Outstanding protection**

  Featuring an exclusive additive system to ensure maximum soot handling, Shell Rimula R5 E delivers excellent wear protection and long oil life in Euro 3, US 2002 and other advanced engines.

- **Fuel economy capability**

  The use of advanced base oil components provides Shell Rimula R5 E with the capability to improve cold starting and reduce fuel consumption and save money, without compromising engine protection or durability.

- **Improved engine cleanliness**

  The exclusive additive system delivers improved engine cleanliness and protection against piston deposits allowing Shell Rimula R5 E to exceed the demanding requirements of most OEMs.

Main Applications

- **Severe service heavy duty diesel engines**

  Shell Rimula R5 E provides demonstrated protection and performance in the latest high power heavy duty diesel engines from Europe, US and Japanese manufacturers in both on-highway and off-highway applications. Shell Rimula R5 E is suitable for use with biodiesel per the OEM recommended oil drain intervals.

- **High technology low emission engines**

  Shell Rimula R5 E is suitable for most modern low emission engines meeting Euro 2,3, US 2002 emission requirements.

- For the latest low emissions engines, especially those fitted with exhaust diesel particulate traps (DPF), we recommend the use of our low-SAPS products, Shell Rimula R6 LM/LME.

Specifications, Approvals & Recommendations

- API CI-4, CH-4
- ACEA E7, E5, E3
- Cummins CES 20078, 20077, 20076, 20072, 20071
- Deutz DQC III-18
- DTFR 15B110
- Global DHD-1
- Mack EO-M, EO-M+
- MAN M3275-1*
- Renault Trucks RLD-2
- Volvo VDS-3

  * meets the requirements of

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

Typical Physical Characteristics

Properties			Method	Shell Rimula R5 E 10W-40
Kinematic Viscosity	@40°C	mm^2/s	ASTM D445	90
Kinematic Viscosity	@100°C	mm^2/s	ASTM D445	14.2
Dynamic Viscosity	@-25°C	mPa s	ASTM D5293	6 600
Viscosity Index			ASTM D2270	150
Total Base Number		mg KOH/g	ASTM D2896	10
Sulphated Ash		%	ASTM D874	1.2
Density	@15°C	kg/l	ASTM D4052	0.882
Flash Point (COC)		°C	ASTM D92	220
Pour Point		°C	ASTM D97	-39

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 R5 E 10W-40 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.