



Technical Data Sheet

Shell Rimula R5 M 10W-40 (E4/228.5)

- Maintenance Saving

Synthetic Technology Heavy Duty Diesel Engine Oil

Shell Rimula R5 M uses a highly active additive technology enhanced with synthetic technology base oils that further energise the oil performance. Delivering responsive protection that continuously adapts to your driving conditions resulting in maintenance saving long oil drain capability.

Particularly suitable for use in modern Mercedes-Benz and MAN low emission heavy duty diesel engines (Euro 2,3).

Performance, Features & Benefits

■ Maintenance saving

Shell Rimula R5 M has been formulated to meet the long oil drain requirements of engine makers such as Mercedes-Benz and MAN to allow operators to optimize maintenance scheduling.

■ Improved engine cleanliness

The advanced formulation delivers good engine cleanliness and protection against piston deposits allowing Shell Rimula R5 M to ensure engine and component reliability at extended oil drain intervals.

■ Low emission engine use

Shell Rimula R5 M meets the requirements of Mercedes-Benz, MAN and other manufacturers for Euro 2,3 engines and certain Euro 4 applications.

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

Specifications, Approvals & Recommendations

- MAN: 3277
- MB Approval: 228.5
- ACEA: E4
- IVECO: T3 E4 (Meets Iveco specification)

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

Main Applications



■ European heavy duty engines

Shell Rimula R5 M provides protection and performance in modern high power heavy duty diesel engines from leading European engine makers such as Mercedes-Benz and MAN.

Typical Physical Characteristics

Properties			Method	Shell Rimula R5 M 10W-40 (E4/228.5)
Viscosity Grade				10W-40
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	89
Kinematic Viscosity	@100°C	mm ² /s	ASTM D445	13.4
Dynamic Viscosity	@-25°C	mPa s	ASTM D5293	6700
Viscosity Index			ASTM D2270	152
Total Base Number		mg KOH/g	ASTM D2896	15.8
Sulphated Ash		%	ASTM D874	1.9
Density	@15°C	kg/l	ASTM D4052	0.867
Flash Point (COC)		°C	ASTM D92	220
Pour Point		°C	ASTM D97	-42

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 M 10W-40 (E4/228.5) 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.