



Technical Data Sheet

- Low Emissions
- Maintenance Saving

Shell Rimula R6 LM 10W-40

Advanced Synthetic Technology Heavy Duty Engine Oil

Heavy duty engine oil featuring "Low-SAPS" additive technology to provide protective power and deliver maintenance savings. Protective power is enhanced with advanced synthetic base oil technology resulting in long engine life and long oil life.



Performance, Features & Benefits

- **Maintenance saving**
Shell Rimula R6 LM meets the long oil drain requirements of Mercedes-Benz, MAN and others, from the latest Euro 6 to older generation engines, to allow operators to optimize maintenance schedules and control maintenance costs.
- **Emissions system compatibility**
Advanced low-ash formulation helps control blocking of or poisoning of exhaust after-treatment devices, helping maintain vehicle emission compliance and engine fuel efficiency.
- **Low wear, low deposits**
Unique additive technology delivers high levels of piston cleanliness essential for long engine life and wear protection.
- **Fuel economy**
Shell Rimula R6 LM can save money in fuel consumption compared to high viscosity grades.

Main Applications



- **On-highway heavy duty applications**
Particularly suited for a wide range of trucking and transportation applications in modern low-emission vehicles from Mercedes-Benz, MAN, Volvo and others. Especially suitable for fleets with mixed Euro 2,3,4, 5 and 6 engine types.

- **Low emission engine use**

Shell Rimula R6 LM meets the latest requirements of most OEMs for Euro 4, 5, 6 engines and exceeds the performance requirements of industry specifications such as ACEA E11 and API CK-4.

- **CNG engine oil performance**

Shell Rimula R6 LM is approved for use in buses and trucks fitted with engines designed to run on 100% CNG such as those from Mercedes-Benz and MAN.

- Shell Rimula R6 LM is suitable for use with biodiesel per the OEM recommended oil drain intervals.

Specifications, Approvals & Recommendations

- ACEA E6, E8, E7, E9, E11
- API CK-4, CJ-4
- Caterpillar ECF-3, ECF-2
- Cummins CES 20086, 20081
- DAF Meets ACEA E6
- DTFR 15C110
- Detroit Fluids Specification (DFS) 93K222, 93K218
- Deutz DQC IV-18 LA
- IVECO 18-1809 Class NG2
- JASO DH-2
- Liebherr LH-00-ENG LA-22 Standard**
- MACK EO-S 4.5, EO-O Premium Plus
- MAN M3477*, M3271-1*
- MTU Category 3.1
- Renault Trucks RLD-3
- Volvo VDS-4.5

*meets the performance level of

**for diesel engines only

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

Typical Physical Characteristics

Properties			Method	Shell Rimula R6 LM 10W-40
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	96.8
Kinematic Viscosity	@100°C	mm ² /s	ASTM D445	14.5
Dynamic Viscosity	@-25°C	mPa s	ASTM D5293	6 010
Sulphated Ash		%	ASTM D874	1.00
Density	@15°C	kg/m ³	ASTM D4052	861
Flash Point (COC)		°C	ASTM D92	218
Pour Point		°C	ASTM D97	-36
Total base number (TBN)		mg KOH/g	ASTM D2896	10.2

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 R6 LM oils are unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and 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 authorized 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.