



- Versatile CNG/LNG Engine Oil

Shell Rotella NG Plus 15W-40

CNG/LNG, Heavy Duty Diesel and Passenger Car Engine Oil

Shell Rotella NG Plus oil is specially formulated to provide hard working protection under the full range of pressures & temperatures in natural gas engines. Suitable for mobile vehicles operating with 100% LNG/CNG fuel, approved for use in Cummins LNG/CNG engines.



Performance, Features & Benefits

- **Advanced piston and engine cleanliness**

Optimized balance of detergent and dispersancy provides good piston and engine cleanliness ensuring long and efficient engine operation.

- **Ignition system protection**

Optimized formulation containing additives to control deposit formation in the combustion chamber to help prolong the life of valves and spark plugs.

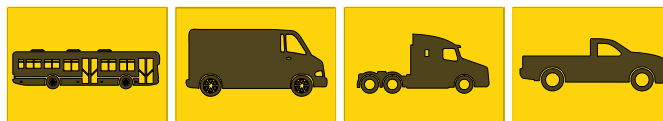
- **Emissions system compatibility**

The low ash formulation helps protect the exhaust catalysts and particulate filters found on the latest low emission vehicles.

- **Suitable for Natural gas, Diesel and Gasoline engines**

Customer with mixed fleets can benefit from a one oil solution, thus minimizing maintenance complexity.

Main Applications



- **Mobile LNG / CNG fuelled heavy duty vehicles**

For buses and trucks fitted with engines designed to run on 100% LNG / CNG.

- **Diesel and gasoline engines**

Suitable for use in heavy duty diesel and gasoline engines requiring API CK-4/SN performances.

Specifications, Approvals & Recommendations

- API CK-4
- API SN
- Caterpillar ECF-3, ECF-2
- Cummins CES 20092, 20086
- Detroit Fluids Specification 93K222
- Mack EO-S-4.5
- Volvo VDS-4.5

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

Typical Physical Characteristics

Properties			Method	Shell Rotella NG Plus 15W-40
Kinematic Viscosity	@100°C	cSt	ASTM D445	15.0
Kinematic Viscosity	@40°C	cSt	ASTM D445	113.0
Viscosity Index			ASTM D2270	133
Density	@15°C	kg/l	ASTM D4052	0.878
Sulfated Ash		%	ASTM D874	0.9
Total Base Number		mg KOH/g	ASTM D2896	8
Phosphorus, Max % wt			ASTM D4952	0.080
Flash Point (COC)		°C	ASTM D92	234
Pour Point		°C	ASTM D97	-33

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

This product 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 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 your Shell Representative.