



Technical Data Sheet

- Dedicated CNG Engine Oil

Shell Rotella NG 15W-40

Multigrade Dedicated CNG Engine Oil

Shell Rotella NG Energized Protection™ oil uses tailored combinations of high performance additives to ensure that the oil adapts and protects under the range of pressures and temperatures found in compressed natural gas (CNG) fueled engines. Shell Rotella NG oil is suitable for mobile applications like buses and trucks fitted with engines designed to run on 100% CNG and LNG.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Good piston and engine cleanliness**
Optimized balance of detergency and dispersancy provides good piston and engine cleanliness ensuring long and efficient engine operation.
- **Ignition system protection**
Optimized formulation with reduced levels of “ash” containing additives to control deposit formation in the combustion chamber to help prolong the life of valves and spark plugs.
- **Good wear protection**
Contains an optimized active anti-wear system that balances the more demanding requirements of on-highway applications (compared to stationary gas engine) with the need to minimize spark plug fouling.

Main Applications



- **Mobile CNG fuelled heavy duty vehicles**
For buses and trucks fitted with engines designed to run on 100% CNG Shell Rotella NG is suitable.

Specifications, Approvals & Recommendations

- API : CF
- Cummins : CES 20074
- Detroit Diesel : DDC 93K216

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

Typical Physical Characteristics

Properties	Method	Shell Rotella NG 15W-40
SAE Viscosity Grade		15W-40
Kinematic Viscosity @40°C	mm ² /s	ASTM D445 117
Kinematic Viscosity @100°C	mm ² /s	ASTM D445 15.5
Total Base Number TBN - E	mg KOH/g	ASTM D2896 4.8
Sulfated Ash	%	ASTM D874 0.6
Phosphorus, Max % wt		ASTM D4952 0.08
Flash Point (COC)	°C	ASTM D92 225
Pour Point	°C	ASTM D97 -33
Density @15°C	kg/l	ASTM D4052 0.88

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.