



Technical Data Sheet

- Modern Engine - High Power Use

Shell HD4 Plus 15W-40

Heavy-Duty Diesel Engine Oil

Shell HD4 Plus adapts and protects under full range of pressures and temperatures found in modern engines. It delivers excellent soot and viscosity control, outstanding protection against wear and exceptional versatility for multiple engine makes.

Performance, Features & Benefits

- **Outstanding protection**

Featuring an additive system to ensure optimal soot handling, Shell HD4 Plus delivers wear protection and long oil life in advanced engines.

Main Applications



Specifications, Approvals & Recommendations

- API CI-4 Plus Performance*

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

* Meets API CI-4 Plus performance level of Mack T-11 engine test

Typical Physical Characteristics

Properties			Method	Shell HD4 Plus 15W-40
Kinematic Viscosity	@ 40°C	mm ² /s	ASTM D445	111
Kinematic Viscosity	@ 100°C	mm ² /s	ASTM D445	15
Dynamic Viscosity	@ -20°C	mPa s	ASTM D5293	5 800
Viscosity Index			ASTM D2270	140
Total Base Number		mgKOH/g	ASTM D2896	11
Sulphated Ash		%	ASTM D874	1.35
Density	@ 15°C	kg/l	ASTM D4052	0.88
Flash Point (COC)		°C	ASTM D92	230
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 HD4 Plus 15W-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 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 www.epc.shell.com