Technical Data Sheet

Shell HD4 *15W-40*

Heavy Duty Diesel Engine Oil

Helps to provide protection to improve engine and oil durability. Suitable for On and Off highway applications.

Performance, Features & Benefits

- **Engine cleanliness**

  The high thermal stability and oil oxidation resistance provide a high standard of protection against piston deposits. Engine cleanliness is further enhanced through use of high performance dispersants to control sludge and deposits in other parts of the engine.

- **Low engine wear**

  The combination of active anti-wear additives and good engine cleanliness controls engine wear, gives long engine life, maintains engine power and efficiency and lowers servicing costs.

Main Applications



- For the latest low emissions engines especially those fitted with exhaust diesel particulate filters (DPF), we recommend the use of our low-emissions products, Shell Rimula R4 L or Shell Rimula R5 LE.

Specifications, Approvals & Recommendations

- API CI-4
- For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Typical Physical Characteristics

Properties			Method	Shell HD4 15W-40
Kinematic Viscosity	@40°C	cSt	ASTM D445	109
Kinematic Viscosity	@100°C	cSt	ASTM D445	14.7
Dynamic Viscosity	@-20°C	cP	ASTM D5293	6 600
Viscosity Index			ASTM D2270	139
Density	@15°C	kg/m^3	ASTM D4052	881
Flash Point (COC)		°C	ASTM D92	230
Pour Point		°C	ASTM D97	-36
TBN		mg KOH/g	ASTM D2896	8.6
Sulphated Ash		%	ASTM D874	1.16

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 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 https://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.