



Technical Data Sheet

- Low Emissions

Shell T2 HD 10W-30

Synthetic Blend Technology Heavy Duty Diesel Engine Oil

Shell T2 HD oil has been formulated to provide reliable protection and uses “Low-SAPS” additive technology to protect in modern, low-emission engines.

Performance, Features & Benefits

Shell HD T2 engine oil has been designed to meet the API CK-4 specification and provide:

- Performance in both on-highway and off-highway equipment.
- Backwards compatibility for older equipment requiring API CJ-4, CI-4 Plus, CI-4 or CH-4 diesel engine oil.

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

- **Delivers performance required for API CK-4 specification**

Shell T2 HD has been formulated to meet the most recent API CK-4 specification. This specification requires proven performance in key tests around oxidation control, aeration control, and shear stability.

- Provides fuel economy benefits compared to an SAE15W-40 grade.

Main Applications



Suitable for use in all on or off highway engines requiring an API CK-4, CJ-4, CI-4 Plus, CI-4 or CH-4 diesel oil in this viscosity grade.

Specifications, Approvals & Recommendations

- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4,
- Caterpillar, ECF-3, ECF-2
- Cummins CES 20086, 81
- Detroit Fluids Specification (DFS) 93K222, 93K218
- Mack EOS-4.5, EO-O Premium Plus
- 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 T2 HD 10W-30
Kinematic Viscosity	@40°C	cSt	ASTM D445	82
Kinematic Viscosity	@100°C	cSt	ASTM D445	12.1
Viscosity Index			ASTM D2270	142
Dynamic Viscosity	@-25°C	cP	ASTM D5293	5 000
MRV	@-30°C	cP	ASTM D4684	19 600
Flash Point (COC)		°C	ASTM D92	225
Pour Point		°C	ASTM D97	-41
Density	@15°C	kg/m ³	ASTM D4052	866

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 HD T2 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 <http://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.