



Shell Rotella® T1 40 (CF/CF-2)

- *Reliable Lubrication*

High Quality Heavy Duty Diesel Engine Oils

Shell Rotella® T1 Energized Protection™ oils use well-proven performance additives to fight engine wear and prevent deposits, providing Reliable Lubrication and consistent performance. Suitable for day to day use in turbo and non-turbocharged older engines.



Performance, Features & Benefits

- **Reliable Performance**

Provide reliable all-year-round performance in the applications for which they are intended.

- **Proven durability**

Shell Rotella® T1 provides Excellent wear protection that promotes engine durability. It has a low ash content which minimizes the formation of deposits and keeps intake ports clean. It offers Excellent rust and Corrosion protection for critical engine parts.

- Shell Rotella® T1 is suitable for heavy equipment used for construction, mining or quarry operations.
- Shell Rotella® T1 40 is suitable for use in Detroit Diesel two-cycle engines (Series 53, 71 and 92).
- **Hydraulic and transmissions**
Shell Rotella® T1 oils can be used in certain transmission and mobile hydraulic systems where the equipment manufacturer recommends use of mono-grade engine oils.

Main Applications



- **Heavy duty Diesel engines**

Shell Rotella® T1 is suitable for older on and off road diesel vehicles and some stationary engines.

Specifications, Approvals & Recommendations

- API CF-2, CF
- Detroit Diesel Series 53,71,92
- For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Help Desk, or the OEM Approvals website.

Typical physical Characteristics

Properties			Method	Shell Rotella T1 40 (CF/CF-2)
SAE Viscosity Grade				40
Kinematic Viscosity	@40°C	cSt	ASTM D 445	123
Kinematic Viscosity	@100°C	cSt	ASTM D 445	13.0
Viscosity Index			ASTM D 2270	99
density	@15°C	kg/l	ASTM D 4052	0.890
Total Base Number			ASTM D 2896	7.5
Flash Point (Cleveland Open Cup)			ASTM D 92	225
Pour Point			ASTM D 97	-21

- These Characteristics are typical of current production. While future production will conform to Shell's specification, variations in These Characteristics may occur.

Health, Safety & Environment

- **Health and Safety**

Shell Rotella T1 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 Material Safety Data Sheet, which can be obtained from your Shell representative.

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Additional Information

- **Advice**

Product recommendations for applications and specifications not covered here may be obtained from your Shell representative.