



# Shell Rotella T6 0W-40 (CJ-4)

Shell Rotella® T6 Energized Protection oil features Shell exclusive "Low-SAPS" additive technology reinforced with a novel and unique anti-wear system. Protective power is further enhanced through the use of synthetic base oil technology

Key benefits include; compatibility with exhaust emissions control systems and protection in extreme operating temperatures.



## Performance, Features & Benefits

- Improved wear performance**  
 Provides a significantly increased level of protection against harmful engine wear when compared to previous generation API CI-4+ engine oils.
- Improved deposit control**  
 The advanced multi-functional dispersant additives in combination with synthetic base oils provide an enhanced level of protection against the effects of soot, dirt and other contaminants.
- Protection in extreme climates**  
 Shell Rotella® T6 Synthetic oil is based on free flowing synthetic base oils that allow reliable pumping on start-up under extreme cold climate conditions yet remain thick enough under high temperature operation to protect against wear.
- Emissions system compatibility**  
 Advanced low-ash formulation helps control blocking of or poisoning of exhaust after-treatment devices, helping maintain vehicle emission compliance and engine fuel efficiency. This means Rotella® T6 0W-40 (CJ-4) is suitable for both current 2010 emissions engines (SCR), as well as older equipment.

## Main Applications



- Heavy Duty Engines**  
 Suitable for on-road and off-road applications requiring a CJ-4 oil including equipment that is exposed to extreme low temperature operations.

## Specifications, Approvals & Recommendations

API CJ-4  
 API SN  
 Volvo VDS-3  
 Mack EO-N  
 Caterpillar ECF-3, ECF-2, ECF-1A

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 T6 0W-40	
Viscosity grade				0W-40	
Kinematic Viscosity	@40°C	mm <sup>2</sup> /s	ASTM D445	75	
Kinematic Viscosity	@100°C	mm <sup>2</sup> /s	ASTM D445	13.2	
Dynamic Viscosity	@-35°C	CCS	ASTM D5293	6000	
Total Base Number	mgKOH/g		ASTM D2896	8.6	
Sulfated Ash:	%		ASTM D874	1.0	
Density	@15°C	Kg/l	ASTM D4052	0.845	
Flash Point	COC		°C	ASTM D92	226
Pour Point			°C	ASTM D97	-51

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 Rotella® T6 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 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.