Technical Data Sheet

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.

ENERGISED PROTECTION
Adapting to your engine's changing needs

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 Helpdesk.

Typical Physical Characteristics

Properties			Method	Shell Rotella T6
Viscosity grade				0W-40
Kinematic Viscosity	@104°F	mm2/s	ASTM D445	75
Kinematic Viscosity	@212°F	mm2/s	ASTM D445	13.2
Dynamic Viscosity	@-31°F	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

Properties			Method	Shell Rotella T6
Flash Point	COC	°F	ASTM D92	438.8
Pour Point		°F	ASTM D97	-59.8

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Heath, 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.