



Lubricants Report



Product Data Sheet from Shell Lubricants

PDS# 1.56.00

SHELL ROTELLA® T5™

SYNTHETIC BLEND TECHNOLOGY HEAVY DUTY DIESEL ENGINE OIL

LOW EMISSIONS

ENERGY SAVING

Shell Rotella® T5™ Energised Protection oil features "Low-SAPS" additive technology for increased compatibility with the latest exhaust emissions control systems while delivering energy savings. Protective power is further enhanced through the use of synthetic base oil technology that increases additive activity to deliver fuel economy performance with no compromise in durability.



ENERGIZED PROTECTION

Adapting to your engine's changing needs

PERFORMANCE BENEFITS

- **Emissions System Compatibility**
Advanced low-ash formulation helps control the blocking or poisoning of exhaust after-treatment devices, helping maintain vehicle emission compliance and engine fuel efficiency.
- **Fuel Economy Capability**
The use of synthetic base oil components provides Shell Rotella® T5 with the capability to improve cold starting and reduce fuel consumption and save money, without compromising engine protection or durability.
- **Improved Engine Cleanliness**
The advanced formulation delivers good engine cleanliness and protection against piston deposits allowing Shell Rotella® T5 to ensure engine and component reliability at extended oil drain intervals.

APPLICATIONS



- **Low Emission Engine Use**
Shell Rotella® T5 meets the requirements of the major US and European engine manufacturers for low emission applications.

SPECIFICATIONS AND APPROVALS

Approvals and Specifications	SAE Viscosity Grade	
	T5 10W-30	T5 10W-40
API: CJ-4, SM	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ACEA: E9, E7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Caterpillar ECF-3, ECF-2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Cummins CES 20081	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mack EO-O Premium Plus	<input checked="" type="checkbox"/>	
MAN: M 3725	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MTU Cat 2.1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
JASO DH-2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MB Approval: 228.31	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DDC 93K218		<input checked="" type="checkbox"/>
Volvo: VDS-4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

HEALTH AND SAFETY

Shell Rotella T5 oils are unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

For further guidance on Product Health & Safety refer to the appropriate Shell Product Safety Data Sheet. Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

TYPICAL PHYSICAL CHARACTERISTICS

SAE Viscosity Grade	T5 10W-30	T5 10W-40
Kinematic Viscosity (ASTM D445) @ 40°C mm ² /s 100°C mm ² /s	78.9 12	98.3 14.5
Dyn. Index (ASTM D 5293) @ -25°C mPa s	6000	6700
Viscosity Index (ASTM D2270)	147	152
Total Base Number mgKOH/g (ASTM D2896)	10	10
Sulfated Ash % (ASTM D874)	1.0	1.0
Density @ 15°C kg/l (ASTM D 4052)	0.8468	0.8663
Flash Point (COC) °C (ASTM D92)	224	230
Pour Point °C (ASTM D97)	-42	-39

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

PRODUCT CODES:

		3X4L	18.9L pail	Drum	Bulk
T5 10W-40	GSAP JDE	550019850 431-552-14	550019884 431-552-42	550019883 431-552-45	500004735 431-552-99
T5 10W-30	GSAP JDE	550019851 431-551-14	550019887 431-551-42	550019882 431-551-45	500004736 431-551-99

Visit [your nearest Shell Associate or Reseller](#) for more details.

Need more product information? Please contact the [Shell Customer Service Centre](#) at 1-800-661-1600 or e-mail us at questions@shell.com

MSDS requests? Please call 1-800-661-1600 or fax your request to (403) 691-3997
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