



Shell Rotella® T Multigrade

Heavy duty motor oil with Triple Protection™ technology

Shell Rotella® T motor oil with Triple Protection™ technology is a unique, latest generation premium heavy-duty motor oil that meets or exceeds the service requirements of virtually all diesel engine manufacturers – for both the latest 2007-emission compliant and older engines. It is suitable especially for virtually all on-highway service applications, and is also suitable for off-highway applications.

Applications

- Heavy-duty diesel engines in all types of over-the-road service, including the latest emission controlled engines with EGR and diesel particulate filters using Ultra-Low Sulfur Diesel fuel (<15 ppm sulfur) (ULSD) and Low Sulfur Diesel (LSD).
- Suitable for diesel powered equipment including those powered by Caterpillar, Cummins, John Deere, Detroit Diesel, Mack, Mercedes-Benz, International, and Volvo engines in all types of service where fuel sulfur levels are below 500 ppm.
- Off-highway applications where a premium quality engine oil is desired, such as construction, mining, logging and agricultural service where fuel sulfur levels are below 500 ppm.
- Hard working diesel and gasoline engines, engines used in pick-up trucks, sport-utility vehicles (SUVs), and mini-vans.
- Suitable for use as a top-off oil in virtually all diesel engine applications.
- Always follow the engine manufacturers' recommendations for motor oil performance, viscosity grade and oil change interval as these may vary depending on ambient temperature, fuel sulfur composition (LSD or ULSD) and vehicle model year.

Performance Features and Benefits

- Meets or exceeds requirements of today's high-performance, low-emission diesel engines while providing excellent performance in older engines allowing operators use of one oil for many engines.
- Provides significantly improved wear protection, deposit and viscosity control and

oxidation resistance compared to API CI-4 PLUS oils

- Product is covered by a limited warranty and meets virtually all US equipment manufacturers' warranty requirements, helping to minimize operators' risk
- Exceptional protection and durability demonstrated in control of valve train wear and piston ring and liner wear, helping to maximize engine life
- Unique additive chemistry with improved soot control and exclusive detergent system for outstanding engine cleanliness
- Exceptional low-temperature flow properties helps speed cold starts
- Reduced fuel consumption, compared to single-grade oils, can help lower operating costs
- Demonstrated performance reserve throughout the oil drain interval for protection and lubrication throughout the oil drain interval
- A continued heritage of outstanding shear stability for viscosity control

Specifications and Approvals

API	CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4,
API	SM, SL, SJ, SH
ACEA	E7
Caterpillar	ECF-1 ^α , ECF-2, ECF-3
Cummins	CES 20081 ¹
Detroit Diesel	93K218
Mack	EO-O Premium Plus '07 ¹ ,
MAN	M3275
MB Approval	228.3 and 228.31 ¹
MTU	Type 2 ¹
Volvo	VDS 4 ¹

¹ Only applicable to SAE 15W-40

Advice

Advice on applications not covered in this leaflet may be obtained from your Shell representative.

Health & Safety

Guidance on Health and Safety are 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.

Typical Physical Characteristics

	Test Method	SAE Grade	
		15W-40	10W-30
Product Code		5070719	5071394
Property			
Viscosity:			
@ 40°C, cSt	D445	120	83
@ 100°C, cSt	D445	15.5	12.1
Viscosity Index	D2270	135	142
Pour Point, °C (°F)	D97	-40 (-40)	-40 (-40)
Flash Point, COC, °C (°F), min	D92	204 (400)	204 (400)
Neutralization No., TBN	D2896	10.1	10.1
Sulfated Ash, % wt	D874	1.0 max	1.0 max
12/1 Quarts		5071356	5071353
6/1 Gallons		5071355	5071351
2/2.5 Gallons		5071352	--
5 Gallon Pail		5071354	--
55 Gallon Drum		5071338	5071335

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