



# SHELL ROTELLA® T6 SAE 0W-40 FULL SYNTHETIC HEAVY DUTY DIESEL ENGINE OIL – ARCTIC BLEND

## PRODUCT DESCRIPTION

Shell ROTELLA® T6 SAE 0W-40 features an advanced Shell exclusive “Low “SAPS”\* additive technology in a synthetic base oil, and is designed to provide highly responsive performance in extreme low temperature climates. Shell ROTELLA® T6 SAE 0W-40 meets the API CJ-4/SN, Volvo VDS-3, and Mack EO-N, and Caterpillar ECF-3, ECF-2 and ECF-1A specifications. It is suitable for modern vehicles that have 2010 emissions compliant engines and after treatment systems, which require CJ-4 engine oil.



Shell ROTELLA® T6 SAE 0W-40 builds on our commitment to providing innovative solutions to meet the technical and operational needs of your equipment and has been tested and proven to protect your vehicle.

## PERFORMANCE FEATURES & BENEFITS

PERFORMANCE	BENEFIT
Excellent Shear Stability	Helps maintain consistent viscosity and oil pressure during severe high temperature service and oil pressure in the engine.
Protection in extreme low temperature climates	Allows reliable pumping on start-up in low temperature environment
Excellent sludge control & soot handling	This helps keep the oil free flowing for good startup and continued energy efficiency. Performance should carry through, not only as a new oil in the engine, but also throughout the entire oil drain
Emissions system compatibility	Helps maintain vehicle emission compliance and engine fuel efficiency. Advanced low-ash formulation helps control blocking or poisoning of exhaust after-treatment devices

# Shell ROTELLA®

The Engine Oil That Works As Hard As You.™

\*Shell ROTELLA® T6 SAE 0W-40 is formulated with reduced levels of sulfated ash, phosphorous, and sulfur to help maintain the efficiency of the after treatment system of the vehicle.

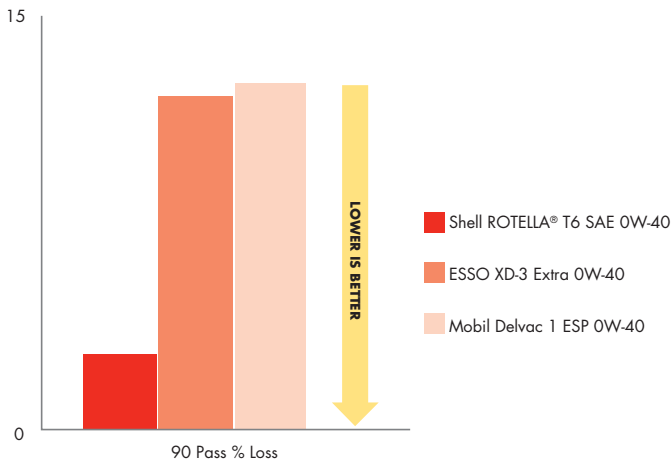
### LOW-TEMPERATURE PROTECTION

Shell ROTELLA® T6 SAE 0W-40 is especially designed for those customers who desire the extreme low temperature protection which a SAE 0W-40 provides, in addition to meeting the latest API CJ-4 specification. It is formulated to provide effective flow to critical engine parts under extreme low temperature conditions. Shell ROTELLA® T6 SAE 0W-40 provides the best low temperature performance in the Shell ROTELLA® portfolio. Shell ROTELLA® T6 SAE 0W-40 has a pour point of -51 °C.

### EXCEPTIONAL SHEAR STABILITY

Shell ROTELLA® T6 SAE 0W-40 provides exceptional shear-stability degradation compared to the leading competitive API CJ-4 SAE 0W-40 products. An extremely shear-stable product helps maintain consistent viscosity and oil pressure in the engine.

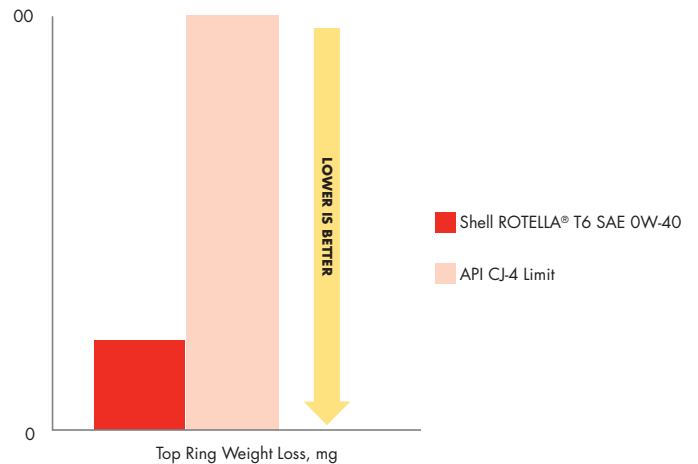
### SHEER STABILITY (90 PASSES)



### PROTECTION AGAINST WEAR

Shell ROTELLA® T6 SAE 0W-40 was formulated to deliver the strong wear protection that is representative of the Shell ROTELLA® portfolio. In the Cummins ISM engine test, which is required for API CJ-4 and which measures top ring weight loss and crosshead wear, Shell ROTELLA® T6 SAE 0W-40 scored a perfect 700 out of 700 merits for those two parameters. The actual result for Top Ring Weight Loss in the Cummins ISM engine test is the best (lowest) in the current Shell ROTELLA® portfolio.

### DEMONSTRATING WEAR PERFORMANCE



### SPECIFICATIONS & APPROVALS

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

### PRODUCT MATERIAL & PACKAGE SIZE

PRODUCT	1*5 GAL	1*55 GAL	3*1 GAL
0W-40	550036271	550036419	550046264

**Shell**  
**ROTELLA®**

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# SHELL ROTELLA® T6 5W-40 FULL SYNTHETIC HEAVY DUTY ENGINE OIL

Shell ROTELLA® T6 5W-40 Full Synthetic Heavy Duty Engine Oil with Triple Protection Plus™ technology delivers all the protection you've come to expect from Shell ROTELLA® and then some as it not only meets but exceeds API CK-4 performance standards.

## Better Fuel Economy

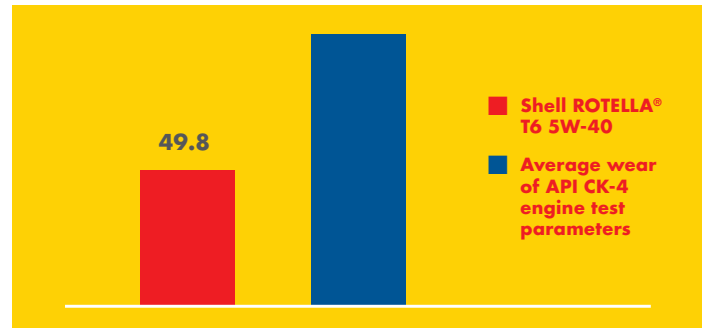
Through the use of Shell's most advanced technology, Shell ROTELLA® T6 5W-40 full synthetic heavy duty engine oil offers enhanced fuel economy capability of up to 1.5%\* that can save money in fuel consumption, without compromising engine protection or durability.

*\*Compared to SAE 15W-40 heavy duty engine oils.*

## Improved Wear Performance

Shell ROTELLA® T6 5W-40 full synthetic (CK-4) provides excellent protection against harmful engine wear. In 30 API CK-4 and OEM wear test parameters and 10 separate passing engine tests, the average result for Shell ROTELLA® T6 5W-40 was 50% of the respective limit.

## API CK-4 and OEM Wear Test Parameters



## Excellent 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 compared to conventional heavy duty diesel engine oil.

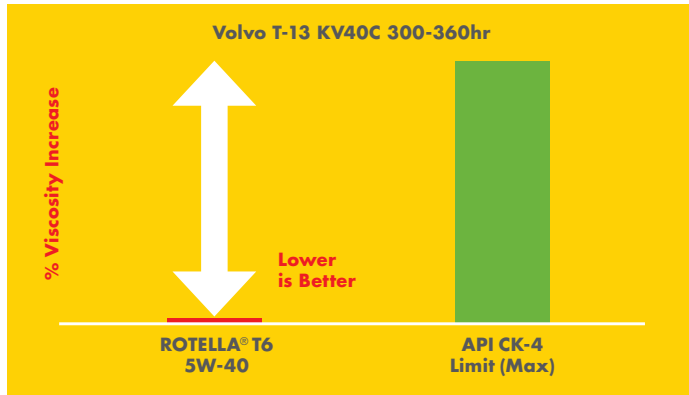


**Shell  
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The Engine Oil That Works As Hard As You.™

## Improved Oxidation Performance

Shell ROTELLA® T6 5W-40 provides strong oxidation resistance in the new Volvo T-13 test, controlling harmful acid build up, and easily exceeding the API CK-4 limits for oxidation (Peak IR) and viscosity increase. With improved oxidation resistance comes better viscosity control, which helps maintain fuel economy. If the oil is not thickening up, then the fuel economy performance will be better maintained throughout the oil drain. Better oxidation performance also helps prevent deposits in the engine, in other words, maintains cleanliness and helps prevent acid buildup, which can cause corrosive wear in the engine.



## Excellent Low Temperature Flow

In an engine motored at -34 °C, oil flow between the sump and gallery was considerably faster with Shell ROTELLA® T6 5W-40 compared to the Shell ROTELLA® T4 Triple Protection® 15W-40. This means that the oil reaches critical engine parts faster.

## PRODUCT MATERIAL & PACKAGE SIZE

PRODUCT	6*1 QUART	24*1 QUART	3X1 GAL JUG	2X2.5 GAL	1*5 GAL	1*55 GAL	BULK
<b>5W-40 (CK-4)</b>	550046216	550046218	550045347	550046215	550046217	550046219	500010133

## Emissions System Compatibility

Advanced low-ash formulation helps control blocking or poisoning of exhaust after-treatment devices, helping maintain vehicle emission compliance and engine fuel efficiency.

## Outstanding Shear Stability

Shell ROTELLA® T6 synthetic oil resists viscosity loss through shear and will maintain optimal oil pressure in the engine.

**For more information, contact your local Shell Lubricants Representative or visit [www.rotella.com](http://www.rotella.com)**

## Our Complementary Range

In addition to a full range of Shell ROTELLA® Heavy Duty Engine Oils, Shell Lubricants offers a complete portfolio of lubricants for every part of your equipment, including Shell SPIRAX® gear/axle oils and transmission fluids, Shell GADUS® greases, Shell ROTELLA® ELC Extended Life Coolant/Antifreeze, and Shell HD Antifreeze/Coolant.

## OEM SPECIFICATIONS AND APPROVALS

### 5W-40

API: CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4 ACEA E9, JASO DH-2, Cummins CES 20086; Volvo VDS-4.5; Detroit Fluid Specification DDC (DFS) 93K222, Caterpillar ECF-2/ECF-3, MAN M3575, JASO MA/ MA2, Allison TES 439, MB-Approval 228.31



# Shell ROTELLA®

## T6 15W-40 Full Synthetic Heavy Duty Engine Oil



### New technology. Same hard work

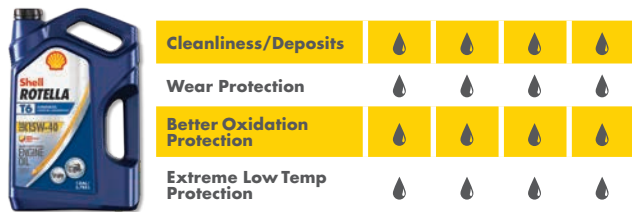
The viscosity grade that we know our customers prefer and trust<sup>1</sup>, now available in a full synthetic product. Shell Rotella® T6 15W-40 Heavy Duty Engine Oil is a full synthetic product formulated for improved<sup>2</sup> hard working protection resulting in:

- Improved wear protection
- Improved protection against oxidation
- Improved deposit control/cleanliness
- Improved low temperature flow
- Improved corrosion control

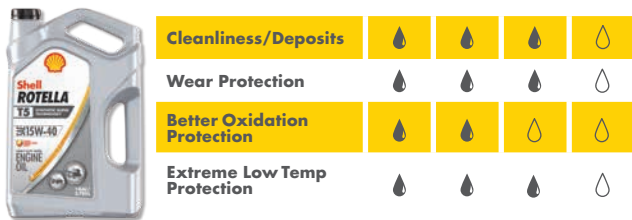
<sup>1</sup> According to Kline

<sup>2</sup> Compared to conventional and semi-synthetic Rotella 15W-40 products.

### RELATIVE PROTECTION<sup>3</sup>



VS



<sup>3</sup> The number of oil droplets indicates relative performance.

### Formulated for every hard working need

Shell Rotella® T6 15W-40 is suitable for virtually all modern low-emission heavy duty engines<sup>4</sup> and older hard working diesel engines. With its wide range of specifications, and approvals from many of the world's leading engine makers, it is an excellent choice for on-highway fleets, general haul, construction, agriculture, public-transport operators and diesel pick-up trucks.

<sup>4</sup> Consult your owner's manual for heavy duty engine oil recommendations.

### Delivers excellent oil consumption control

Lower volatility in conjunction with detergents and dispersant used in Shell Rotella T6 15W-40 help provide excellent oil consumption control. Shell Rotella® T6 15W-40 provides lower oil volatility in the Noack test compared to conventional Shell Rotella® T4 15W-40. Lower Volatility = Lower Oil Consumption.

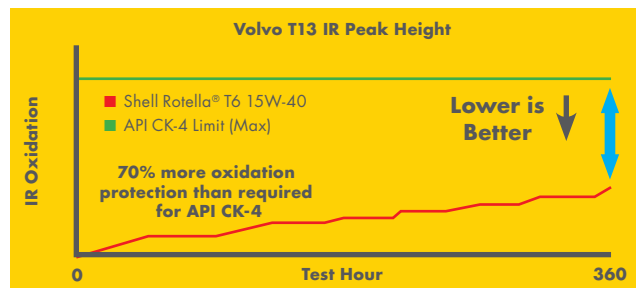
### Cold Climate Protection

Shell Rotella® T6 15W-40 provides better cold cranking properties and low temperature pumpability at -15°C compared to conventional and semi-synthetic Shell Rotella® 15W-40 products<sup>5</sup>. That means it reaches critical engine parts faster than conventional and synthetic blend oils in colder temperatures, to minimize wear and make hard work easier in cold climates<sup>5</sup>.

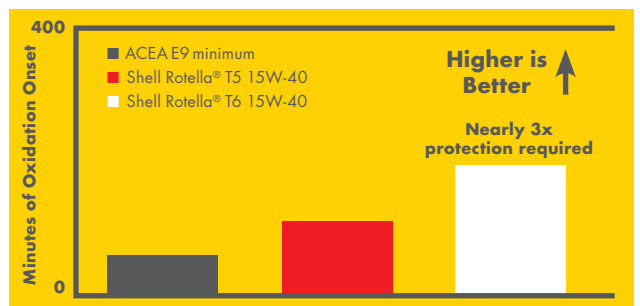
<sup>5</sup>Shell Rotella® T6 demonstrates better low temperature flow in SAE J300 requirements including MRV (ASTM D4684) and CCS (ASTM D5293)

### Improved Oxidation Performance

Shell Rotella® T6 15W-40 provides strong oxidation resistance in the new Volvo T-13 test, controlling harmful acid build up, and easily exceeding the API CK-4 limits for oxidation (Peak IR) and viscosity increase. With improved oxidation resistance comes better viscosity control, which helps maintain fuel economy. If the oil is not thickening up, then the fuel economy performance will be better maintained throughout the oil drain. Better oxidation performance also helps prevent deposits in the engine, in other words, maintains cleanliness and helps prevent acid buildup, which can cause corrosive wear in the engine.



### MINUTES TO OXIDATION ONSET



■ CEC reproducibility for PDSC CEC L-085-99 Oxidation Onset Time is 29 minutes  
■ PDSC CEC L-085-99 is required for ACEA E9 specification

## Wear protection beyond CK-4 standards

There are two basic types of wear in an engine: mechanical and corrosive wear, which is found when acids form during the combustion process. Part of an engine oil's responsibility is to protect against wear. In API industry wear tests, Shell Rotella® T6 15W-40 didn't just meet CK-4 specs, it demonstrated an 85% improvement in copper corrosion protection and 98% improvement in lead corrosion protection than required, an average of 50% more wear protection than required.

## SPECIFICATIONS AND APPROVALS

### Shell Rotella® T6 15W-40

API, CK-4, CJ-4, ACEA E9, JASO DH-2, MA/MA 2; Caterpillar ECF-2, ECF-3; Cummins CES 20086; DDC DFS 93K222; MB-Approval 228.31; Volvo VDS-4.5; Ford WSS-M2C171-F1; Allison TES 439, MAN 3775; MACK EOS-4.5

### Our complementary range

In addition to a full range of Shell Rotella® heavy duty engine oils, Shell Lubricants offers a complete portfolio of lubricants for every part of your equipment, including Shell SPIRAX® gear/axle oils and transmission fluids, Shell GADUS® greases, Shell Rotella® ELC Extended Life Coolant/Antifreeze, and Shell HD Antifreeze/Coolant.

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## PRODUCT MATERIALS & PACKAGE SIZE

PRODUCT	3x1 Gal Jug	Ecobox
<b>T6 15W-40 (CK-4)</b>	550050467	550050466



For more information, contact your local Shell Lubricants Representative or visit [www.rotella.com](http://www.rotella.com)



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