



**SHELL ROTELLA®**  
**ENERGIZED PROTECTION™**



**SHELL ROTELLA® T3**  
• MAINTENANCE SAVING FOR FLEETS



## ABOUT ENERGIZED PROTECTION™

You need to know your oil will protect your engine under all conditions. No matter how hot, cold, steep, dusty, muddy or extended your operations, you demand protection.

The Energized Protection™ of Shell Rotella® heavy duty diesel engine oils provides protection in three critical areas:

- 1. Acid control** — helps protect against corrosion from acids formed as fuel burns and as the oil ages
- 2. Deposit control** — helps keep engine clean for optimum performance and long life
- 3. Wear control** — helps keep moving metal engine surfaces apart for long life

Shell Rotella® T3 Energized Protection™ oils are an integrated part of the Shell Fleet Management Program, designed to help **minimize cost of operation** and lubricant ownership, and **maximize equipment utilization**. Shell Rotella® T3 has been tested in both current and older emission engines and meets the API CJ-4 requirements for enhanced performance, whether you use the latest engines or older models. **Shell Rotella® T3 has 26 million miles of real-world testing, on and off road.** You get everything you demand for your fleet: **economical, reliable lubricant performance** for on- and off-highway applications.

## PROTECTIVE POWER

Using modern multi-component chemistry, Shell Rotella® T3 gives all-around protection for turbo- and non-turbocharged engines alike.

	RELATIVE PROTECTION			
	Acid/ Corrosion	Dirt & Deposits	Wear	Exhaust Filters
Shell <b>Rotella® T3</b> • Maintenance Saving	✓✓	✓✓ ✓	✓✓ ✓	✓✓ ✓
Shell <b>Rotella® T CI-4 PLUS</b> • Reliable Lubrication	✓✓	✓✓	✓✓	N/A

## SPECIFICATIONS AND APPROVALS

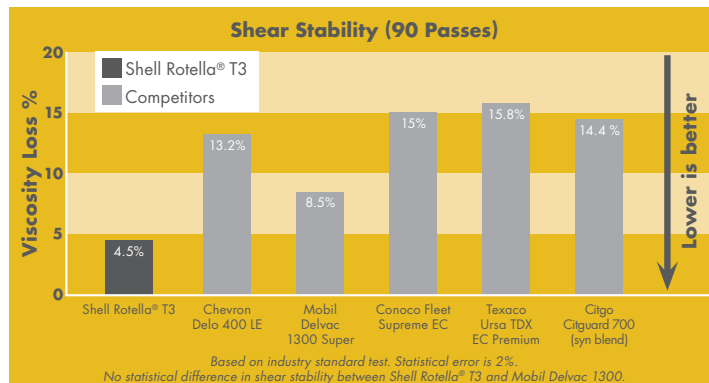
	SAE VISCOSITY GRADE	
	15W-40	10W-30
API CJ-4, CI-4 PLUS, CI-4, CH-4, CF, SM, SL; ACEA E9, E7; JASO DH-2; Caterpillar ECF-2, ECF-3; Cummins CES 20081; DDC 93K218; Deutz DQC III-05; MACK EO-O Premium Plus; MAN 3275; MB Approval 228.31; MTU Category 2; Renault Trucks RLD-3; Volvo VDS-4	✓	
API CJ-4, CI-4 PLUS, CI-4, CH-4, CF, SM, SL; Caterpillar ECF-2, ECF-3		✓



## EXCELLENT WEAR PROTECTION

Shell Rotella® T3 Energized Protection™ is specifically designed for fleets. Its formulation features **low-ash additive technology, outstanding shear stability,** and an all-group-II base-stock formulation for **exceptional viscosity control and protection throughout the oil-drain interval.** Shell Rotella® T3 also provides improved wear resistance and engine durability over API CI-4 PLUS oils and improved oxidation for outstanding heat resistance and severe-duty operation.

Shell Rotella® T3 Energized Protection™ has excellent viscosity control delivered through **resistance to both shear-down** and, in particular, **soot-induced thickening.** It helps maintain oil pressure and maintain optimal oil-film thickness in critical bearings and other sliding contacts. This helps provide excellent resistance to viscosity breakdown in heavily loaded areas of the engine.



## EXCEPTIONAL DEPOSIT CONTROL

A clean engine is critical for efficient operation and long engine life. Shell Rotella® T3 has been shown to **keep engines cleaner than previous-generation API CI-4 PLUS oils.**

It contains highly active ashless dispersants to deliver exceptional cleanliness and deposit control:

- On-highway experience in Mercedes-Benz, Caterpillar, and Detroit Diesel engines show virtually no sludge in rocker covers, valve decks or oil sumps
- In industry-standard rating method, Shell Rotella® T3 scores an average 9.62 out of a possible 10 for cleanliness



## FIELD PERFORMANCE

Shell Rotella® T3 demonstrates comparable field performance with Mobil Delvac 1300 Super and Chevron Delo 400 LE.\*

PISTON CLEANLINESS (HIGHER = MORE DEPOSITS)			
	Shell Rotella® T3	Mobil Delvac 1300 Super	Chevron Delo 400 LE
Avg. Overall Demerits	247.1	235.8	275.7
Avg. Top Groove Demerits	63.9	62.4	76.6
Avg. 2nd Groove Demerits	57.9	60.3	67.6
Avg. Top Groove Fill %	63.0	63.2	80.9
Avg. 2nd Groove Fill %	52.6	58.6	65.4
Avg. 1st Land Demerits	43.9	45.4	55.8
Avg. 2nd Land Demerits	16.8	17.9	20.8
Avg. Top Land Heavy Carbon %	6.2	5.0	18.5

\* No statistical difference (at 95% confidence) in piston or engine cleanliness between Shell Rotella® T3, Mobil Delvac 1300 Super and Chevron Delo 400 LE

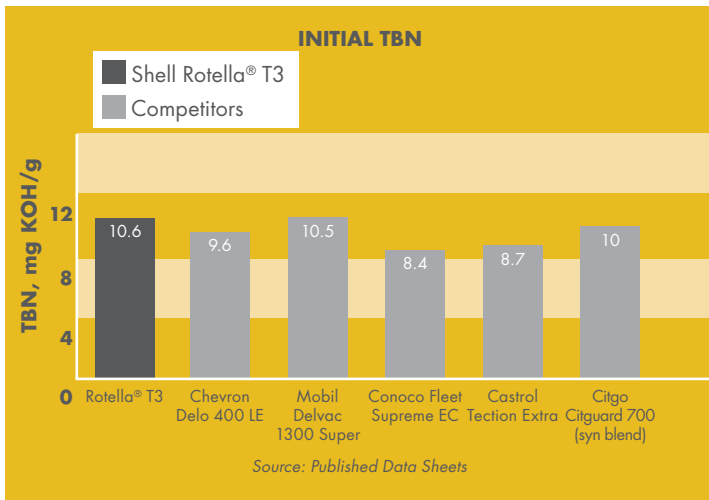
ENGINE CLEANLINESS (HIGHER = CLEANER, 10 = CLEAN)			
	Shell Rotella® T3	Mobil Delvac 1300 Super	Chevron Delo 400 LE
Avg. Rocker Arm Cover Sludge	9.7	9.7	9.6
Avg. Rocker Arm Sludge	9.7	9.7	9.6
Avg. Valve Deck Sludge	9.6	9.6	9.5
Avg. Oil Pan Sludge	9.5	9.6	9.5

INSPECTION MILEAGES			
	Shell Rotella® T3	Mobil Delvac 1300 Super	Chevron Delo 400 LE
2006 MY DDC Series 60	564,466	534,887	441,451
2006 MY Caterpillar C-15	599,231	630,398	659,820

## EXCEPTIONAL ACID CONTROL

Shell Rotella® T3 is formulated with high TBN and high levels of antioxidants, which help neutralize acids formed during combustion under normal and extended oil drains. Insufficient acid neutralization during an oil drain can lead to corrosion of critical parts within the engine and a potential shortening of engine life. Shell Rotella® T3 has provided excellent acid neutralization during millions of miles of on-highway service, for both normal and extended oil drains.

Shell Rotella® T3 provides high TBN to protect during normal and extended oil drains.



When used in conjunction with oil-analysis programs, such as Shell LubeAnalyst™, high TBN can contribute to improved operational efficiency for your fleet while also providing **effective protection against harmful wear, corrosion and deposits.**



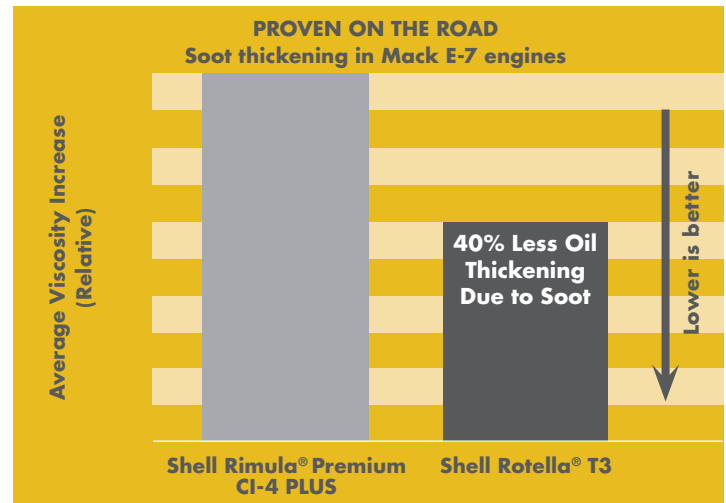
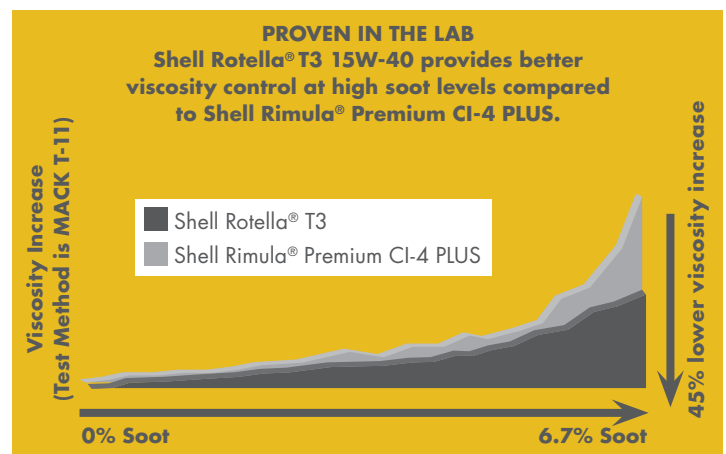
## ENHANCED SOOT CONTROL

Shell Rotella® T3 Energized Protection™ has **45% improved soot control for enhanced protection against oil thickening.\*** And its performance has not only been lab tested, it's been **road proven with 40% better soot control.\*** **Over 24 million miles of real-world on-the-road testing** in 2007-and-older engines confirms its outstanding viscosity control.

\* Compared to Shell Rotella® T CI-4 PLUS

Less oil thickening can contribute to:

- Lower wear
- Improved oil flow in cold temperatures
- Improved fuel economy
- Longer oil drains





## APPLICATION GUIDE



Shell Rotella® T3 heavy duty oil meets the specifications or approval requirements of a wide range of on-highway truck makers and is particularly suitable for use in high-power severe-duty fleets, EGR, turbocharged engines, low-emissions engines (including modern and older turbocharged engines), and off-highway applications.

## PRODUCT MATERIAL & PACKAGE SIZE

	Shell Rotella® T3 15W-40 CJ-4	Shell Rotella® T3 10W-30 CJ-4
<b>5 GAL PAIL</b>	550019910	
<b>55 GAL DRUM</b>	550019911	550019898
<b>275 GAL DRUM</b>	550019895	
<b>BULK</b>	500004734	500004731

## OUR COMPLEMENTARY RANGE

In addition to the 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 and axle oils, Shell DONAX® transmissions fluids, Shell RETINAX® greases, Shell Rotella® ELC Extended Life Coolant/Antifreeze, and Shell HD Antifreeze/Coolants.

## HEALTH SAFETY AND ENVIRONMENT

### Health and Safety

Shell Rotella® T3 oils are unlikely to present any significant health or safety hazard when properly used in the recommended application, and when good standards of industrial and personal hygiene are maintained.

Avoid contact with eyes, skin, or clothing. 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 Material Safety Data Sheet or visit [www.epc.shell.com](http://www.epc.shell.com).

### Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

### Advice

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



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