



SHELL ROTELLA®
ENERGIZED PROTECTION™



SHELL ROTELLA® T3™
• MAINTENANCE SAVINGS 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 engine life.

Shell Rotella T3 Energized Protection oils are an integrated part of the Shell Fleet Management Program, designed to help you **minimize cost of operation** and lubricant ownership, while **maximizing 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 the road.** You get everything you demand for your fleet: **economical, reliable lubricant performance** with the flexibility to tailor oil drains **to match your maintenance needs**, 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 Rotella T3 • Maintenance Saving	✓✓	✓✓ ✓	✓✓ ✓	✓✓ ✓

SPECIFICATIONS AND APPROVALS

SAE VISCOSITY GRADE

	15W-40
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, VDS-3	✓



DESIGNED TO MEET CHALLENGES

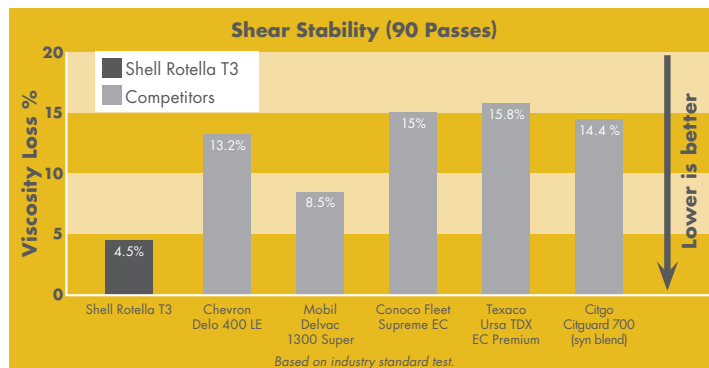


Shell Lubricants

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 to help 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 oils**.

It contains highly active ash-less 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 or oil sumps
- In industry standard ratings, method scores on average 9.65/10 for cleanliness



FIELD PERFORMANCE

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

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

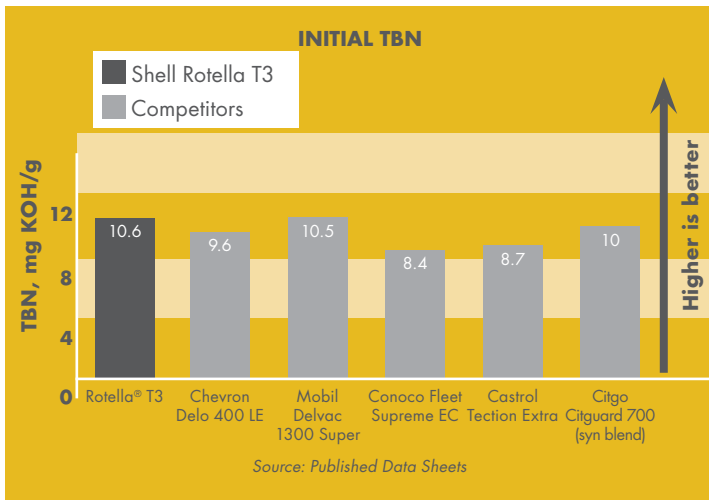
INSPECTION MILEAGES			
	Shell Rotella T3	Mobil Delvac 1300 Super	Chevron Delo 400 LE
2006 MY DDC Series 60	564,466	534,887	441,451
2006 MY Caterpillar C-15	599,231	630,398	659,820

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

EXCEPTIONAL ACID CONTROL

Shell Rotella T3 oil is formulated with higher TBN to provide protection during normal and extended oil drains. Also formulated with increased acid neutralization technology, **Shell Rotella T3 helps lower maintenance costs and increase equipment utilization.** In millions of miles of real service with customers, Shell Rotella T3 has met or exceeded the engine makers' acid-neutralization requirements throughout the drain interval.

Shell Rotella T3 oil provides high TBN to provide protection during normal and extended oil drains.



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

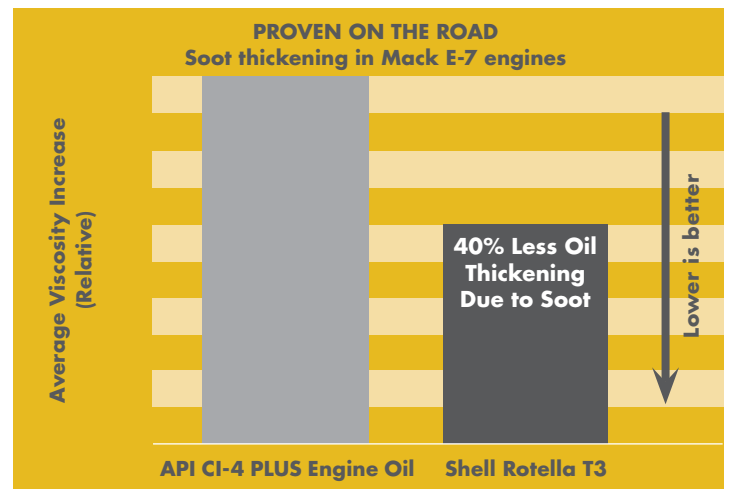
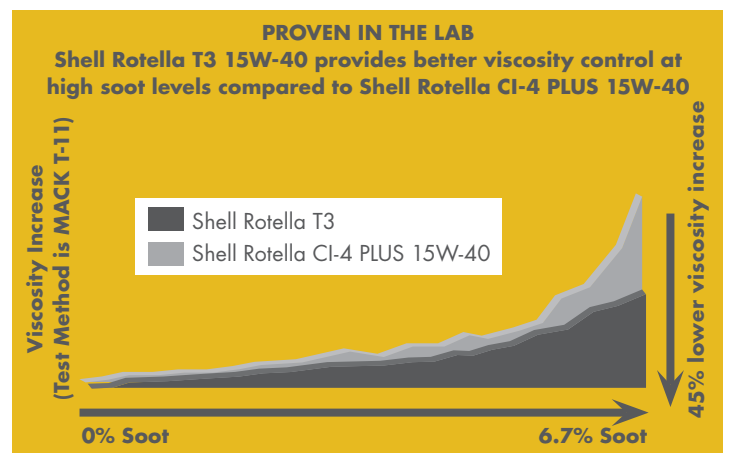


ENHANCED SOOT CONTROL

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.

Less oil thickening can contribute to:

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



APPLICATION GUIDE



With its wide range of on-highway truck maker approvals, Shell Rotella T3 oil 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
18.9L PAILS	550019874 431-534-42
208.2L DRUMS	550019869 431-534-45
975L BIN	550019924 431-534-93
BULK	500004734 431-534-99

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® transmission fluids, Shell Retinax® greases, and Shell Rotella ELC Extended Life Coolant/Antifreeze.

HEALTH SAFETY AND ENVIRONMENT

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Shell representative or on www.shell.ca/lubricants

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 Representative.



**For more information, contact your local Shell representative,
 visit www.shell.ca/rotella or call 1.800.661.1771**