



Heavy Duty Diesel Engine Oil



Heavy Duty diesel lubrication specifications are more demanding and complex than ever. Only the most advanced oils can meet the difficult challenge of effectively balancing durability, extended drain intervals and emission control. Engine Guard Heavy Duty Diesel Engine Oils are specially engineered to meet or exceed the specifications for heavy duty diesel and gasoline engines operating under all service conditions.



ENGINE GUARD CK-4 COMPARISON CHART

	Engine Guard SAE 15W-40 API CK-4/SN	Shell Rotella T [®] SAE 15W-40	Mobil Delvac [®] 1300 Super	Chevron DELO [®] 400 LE SAE 15W-40
Specific Gravity @ 60°F (15.6°C)	0.873	0.878	0.874	0.877
Flash Point °C (°F) 224°C (435°F)		204°C (400°F)	225°C (437°F)	230°C (446°F)
Viscosity @ 40°C cSt	116	118	109	112
Viscosity @ 100°C cSt	15.6	15	14.1	14.6
Viscosity Index	143	133	130	134
Pour Point °C (°F)	-36°C (-33°F)	-36°C (-33°F)	-33°C (-27.4°F)	-43°C (-45°F)
Sulfated Ash, wt. %	0.99	1.0	0.9	1.0
TBN, mgKOH/g	10.0	10.1	9.8	10

Shell Rotella T is a registered trademark of SOPUS Products. Delo™ of Chevron. Delvac™ of Mobil.



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CK-4 Heavy Duty Diesel Engine Oil

Applications Include

- ✓ Over the Road Fleet Engines
- ✓ Offroad/Construction Engines
- ✓ Light and Medium Duty Diesel Pick-Up Specifications
- ✓ Ag Equipment Diesel Engines

Benefits of Engine Guard Heavy Duty Diesel Engine Oil SAE 15W-40 (CK-4/SN) include:

- ✓ Meets or exceeds the requirements of OEMs.
- ✓ Recommended for use in a wide range of heavy-duty applications and operating environments found on and off highway, including engines operating under heavy loads.
- ✓ Enhanced friction reduction. Engine Guard provides a very strong oil film to prevent metal-to-metal contact between rotating parts, delivering up to 53% better wear protection.¹
- ✓ Unsurpassed wear protection. The latest generation API CK-4 Engine Guard engine oils provide increased protection against harmful engine and bearing wear due to cavitation, because they improve oil aeration.
- ✓ Better oxidation and deposit control. Stands up to high heat and stress to protect as well on the last day as it does on the first day. Up to 83% better oxidation control and 63% better deposit control.²
- ✓ Formulated with higher starting TBN (10). Provides added oxidation control and protection against acid buildup that can cause rust and corrosion.
- ✓ High TBN retention over the course of a standard drain interval.
- ✓ Million mile Tested Technology. Engine Guard 15W40 CK-4 SN technology protects diesel engines and maintains engine operability beyond 1,000,000 miles!³

Engine Guard Heavy Duty Diesel Engine Oils are recommended for use in OEM Engines.

Manufacturer/specifications are:

- API CK-4, CJ-4, CI-4 Plus, CI-4
- API SN, SM, SL (15W/40 Only as 10W/30 is not SN, SM, SL approved)
- Chrysler/Fiat MS-10902
- Ford WSS-M2C171-F1
- Ford WSS-M2C171-E
- Mack EO-O Premium Plus, EO-N Premium Plus 03, EO-M Plus, and prior
- Mack EOS-4.5
- CAT ECF-3, ECF-2, ECF-1-a
- Cummins CES 20081, 20077, 20076
- Cummins 20086
- Detroit Diesel 93K218, 93K215, 93K214
- Detroit Diesel 93K222
- CID A-A-52306, MIL-PRF-2104G
- MAN 3275, 270
- MAN 3575
- MB 228.3, 228.31
- MTU Type I, Type II
- MTU 2.1
- Renault RLD-4
- Volvo VDS-4, 3, 2
- Volvo VDS-4.5
- Global DHD-1
- JASO DH-2
- ACEA E9, E7, E4, E2
- Allison C-4

¹To measure friction reduction benefits, engineers used the ball-on-disk traction test.

² Compared to new limits of API CK-4 requirements.

³ Tested with oil changed every 25,000 miles.

