

The logo for SpecOil, featuring the brand name in a bold, italicized red font with a red swoosh underline.

PRODUCT DATA SPECIFICATIONS

15W-40 CK-4

HEAVY DUTY DIESEL ENGINE OIL

OEMs have advanced engines design to improve fuel economy, reduce emissions and extend oil drain intervals. SpecOil™ takes advantage of the latest lubricants technology to exceed API and OEM specifications and deliver exceptional value.

SpecOil™ 15W-40 CK-4 Heavy Duty Diesel Engine Oil takes advantage of the latest lubricants technology to exceed API and OEM specifications and deliver exceptional value. It also provides the following features and benefits:

- Up to 53% better wear protection.¹
- Outstanding control of friction and wear more than 65% better than the latest API requirements.²
- Up to 83% better oxidation control and 63% better deposit control.²
- Delivers long-lasting protection and control.
- Meet or exceed requirements of all major OEMs.

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

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



SpecOil Retail Fuels LLC | 333 N. Sam Houston Pkwy E, Suite 550 | Houston, TX 77060
Ph: 832-399-7950 | www.specoillubes.com

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SpecOil™ Heavy Duty Engine Oil is as Good as or Better than Other Top-Tier Brands. The Facts are In the Test Numbers.

Typical Properties	Test Method	SpecOil™ SAE 15W-40 CK-4 (Conventional)	Mobil Delvac™ 1300 Super SAE 15W-40 CK-4 (Synthetic Blend)	Shell Rotella® T4 SAE 15W-40 CK-4 (Conventional)	Chevron® Delo®400 SDE SAE 15W-40 CK-4 (Conventional)
Total Base Number (TBN),mgKOH/g	ASTM D2896	9	9	10.1	10
Viscosity @ 40 °C cSt	ASTM D445	117	106	118	112
Viscosity @ 100 °C cSt	ASTM D445	15.4	14.2	15	14.6
Viscosity Index	ASTM D2270	139	136	133	134
Pour Point °C (°F)	ASTM D5950	-36°C(-33°F)	-33°C(-27°F)	-36°C(-33°F)	-43°C(-45°F)
Sulfated Ash, wt. %	ASTM D874	0.99	1.2	1	1
High Temperature / High Shear Vis at 150 °C, cP	ASTM D5481/ ASTM D4683*	4.1	Not published	Not published	4.2
Source/Date		Company 5-11-20	Company website 5-11-20	Company website 5-11-20	Company website 5-11-20

APPLICATIONS

- Recommended for naturally aspirated and turbocharged four-stroke diesel engines in which the API CK-4 service categories are recommended. It is formulated for engines operating under severe service and a wide range of cold and hot temperatures.
- It is backward compatible for CJ-4 and older API service categories.
- Meets requirements of major OEMs such as Cummins, Detroit Diesel, Mack/Volvo, Paccar, Navistar, Caterpillar, and others.

Typical Properties	Test Method	HD 15W-40 CK-4/SN
Gravity, °API	ASTM D287	31.37
Specific Gravity @ 60 °F (15.6 °C)	ASTM D4052	0.8688
Flash Point, °C	ASTM D92	224
Flash Point, °F	ASTM D92	435
Viscosity @ 40 °C, cSt	ASTM D445	116.9
Viscosity @ 100 °C, cSt	ASTM D445	15.44
Viscosity Index	ASTM D2270	139
Pour Point, °C (°F)	ASTM D5950	-36 °C (-33 °F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	5970 (-20)
High Temperature / High Shear Vis at 150 °C, cP	ASTM D5481	4.11
Noack Volatility, % loss	ASTM D6375	12
Color	ASTM D1500	3.5
Zinc, wt. %	ASTM D5185	0.126
Phosphorus, wt. %	ASTM D5185	0.115
Calcium, wt. %	ASTM D5185	0.181
Sulfur, wt. %	ASTM D4951	0.306
Magnesium, wt. %	ASTM D5185	0.041
Molybdenum, wt. %	ASTM D5185	0.006
Sulfated Ash, wt. %	ASTM D874	0.99
Nitrogen, wt. %	ASTM D4629	0.044
Pumping Viscosity at (°C), cP	ASTM D4684	24,000 (-25)
TBN, mgKOH/g	ASTM D2896	9

Industry/OEM Specifications	HD 15W-40 CK-4/SN
★ Approved ● Meets Requirements ○ Suitable for Use	
API SN	★
API SM, SL, SJ, SH, SG, SF, SE, SD, SC	●
API CK-4, CJ-4	★
API CI-4 Plus, CI-4, CH-4, CG-4, CF-2, CF	●
ACEA E9, E7	●
Allison C-4	○
Caterpillar ECF-3, ECF-2, ECF-1-a	●
Caterpillar TO-2	-
Chrysler/Fiat MS-10902	●
Cummins CES 20086, 20081, 20077, 20076	●
Detroit Diesel 93K222, 93K218, 93K215, 93K214	●
Ford WSS-M2C171-F1, M2C171-E	●
John Deere	○
Mack EOS-4.5, EO-O, EO-N, EO-M Premium Plus	●
MAN 3575, 3275, 270	●
Mercedes Benz 228.3, 228.31	●
MTU 2.1, Type II, Type I	●
Navistar	○
Paccar	○
Renault RLD-4	●
Volvo VDS-4.5, 4, 3, 2	●

