



HEAVY DUTY 15W-40 ENGINE OILS CK-4

Sinclair Premium Plus LE Engine Oil SAE 15W-40 CK-4 is a premium diesel oil that meets the most stringent engine oil specifications available in today's market place. It meets or surpasses most domestic and imported heavy-duty truck manufacturer's warranty requirements including the requirements for Exhaust Gas Recirculation (EGR) and low emission engines with ULSD (2007 engines and later) equipped with Diesel Particulate Filters (DPF's). These engine oils provide excellent oil consumption control, protection against low-temperature and high-temperature deposits, and provides the highest level of wear protection.



APPLICATIONS

- Where API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, CF-2, CF, SN, SM and SL oils are recommended.
- Recommended for 2007 model year and newer engines equipped with Diesel Particulate Filters.
- Recommended for use in Caterpillar, Cummins, Detroit Diesel, Mack, Volvo and many imported diesel engines.
- Recommended for most imported or domestic naturally aspirated or supercharged gasoline or diesel engines used in passenger cars, vans or trucks.
- In hydraulic systems requiring anti-wear, anti-foam, anti-rust and anti-oxidant properties are required.
- Provides the highest level of wear protection with superior control over deposits and oil consumption.

PERFORMANCE

- Meets the requirements of Emission Gas Circulation (EGR) or ACERT.
- Superior performance over a wide range of fuel sulfur content.
- Excellent soot handling capability.
- Superb oxidation stability.

Meets:

ACEA E9, E7, E4, E2
Allison C-4
Caterpillar ECF-3, ECF-2, ECF-1-a
Chrysler/Fiat MS-10902
CID A-A-52306, MIL-PRF-2104G
Cummins 20086, CES 20081, 20077, 20076
Detroit Diesel 93K222, 93K218, 93K215, 93K214
Ford WSS-M2C171-E, WSS-M2C171-F1
Global DHD-1
JASO DH-2
Mack EOS-4.5, EO-O Premium Plus, EO-N Premium Plus 03, EO-M Plus
MAN 3575, 3275, 270
Mercedes Benz 228.3, 228.31
MTU 2.1, Type I, Type II
Renault RLD-4
Volvo VDS-4.5, VDS-4, VDS-3, VDS-2



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TYPICAL PHYSICAL PROPERTIES

METHOD

Viscosity Grade	HD SAE 15W-40 CK-4	
Gravity, °API	ASTM D287	31.37
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8688
Viscosity @ 40°C cSt	ASTM D445	113.8
Viscosity @ 100°C cSt	ASTM D445	15.54
Viscosity Index	ASTM D2270	144
Pour Point, °C (°F)	ASTM D5950	-36°C (-33°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	5466 (-20)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	4.2
Noack Volatility, % loss	ASTM D5800	10
Color	ASTM D1500	3
Zinc, wt. %	ASTM D5185	0.127
Phosphorus, wt. %	ASTM D5185	0.115
Calcium, wt. %	ASTM D5185	0.105
Sulfur, wt. %	ASTM D4951	0.32
Magnesium, wt. %	ASTM D5185	0.1
Molybdenum, wt. %	ASTM D5185	0.0066
Sulfated Ash, wt. %	ASTM D874	0.99
Nitrogen, wt. %	ASTM D4629	0.105
Pumping Viscosity at (°C), cP	ASTM D4684	20,000 (-25)
Total Acid Number, mgKOH/g	ASTM D664	2.9
TBN, mgKOH/g	ASTM D2896	10

Description	Pack Size	Part #	Each UPC	Case UPC	Case Dimensions	Case Cube / Pallet Cube	Case Weight / Pallet Weight	Pallet Stack
HD SAE 15W-40 CK-4	6/1 Quart	538-014	0 14168-01818 0	0 14168-01826 5	L 9.5" x W 7.625" x H 9.625"	0.403 / 68.194	12.414 / 1936.584	156 Cases (6 layers of 26)
HD SAE 15W-40 CK-4	4/1 Gallon	538-007	0 14168-01817 3	0 14168-01836 4	L 15.875" x W 8.875" x H 12.5"	1.019 / 61.111	32.568 / 1693.536	52 Cases (4 layers of 13)
HD SAE 15W-40 CK-4	2/2.5 Gallon	538-009	0 14168-01819 7	0 14168-01832 6	L 14" x W 9.536" x H 14.375"	1.111 / 53.472	40.292 / 1571.388	39 Cases (3 layers of 13)
HD SAE 15W-40 CK-4	5 Gallon	538-008	0 14168-01816 6	N/A	L 12.5" x W 12.5" x H 15.5"	1.402 / 60.083	40.59 / 1704.78	42 Eaches (3 layers of 14)
HD SAE 15W-40 CK-4	30 Gallon	538-004	0 14168-01815 9	N/A	L 19.5" x W 19.5" x H 29.25"	6.437 / 38.056	242.216 / 1211.082	5 Drums
HD SAE 15W-40 CK-4	55 Gallon	538-003	0 14168-01814 2	N/A	L 23" x W 23" x H 35"	10.715 / 44.444	454.41 / 1817.64	4 Drums
HD SAE 15W-40 CK-4	330 Gallon	538-002	0 14168-01813 5	N/A	L 48" x W 48" x H 49"	65.333 / 72.000	2581.638	1 Tote
HD SAE 15W-40 CK-4	Bulk	538-001	N/A	N/A	N/A	N/A	N/A	N/A

