



HEAVY DUTY 10W-30 ENGINE OILS CK-4

Sinclair Premium Plus LE Engine Oil SAE 10W-30 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-4, CF-2 and CF 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.
- 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
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	TYPICAL RESULTS
Viscosity Grade		HD SAE 10W-30 CK-4
Gravity, °API	ASTM D287	31.39
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8687
Viscosity @ 40°C cSt	ASTM D445	82.06
Viscosity @ 100°C cSt	ASTM D445	12.21
Viscosity Index	ASTM D2270	149
Pour Point, °C (°F)	ASTM D5950	-39°C (-38°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	6270 (-25)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	3.5
Noack Volatility, % loss	ASTM D5800	13
Color	ASTM D1500	2.5
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	.105
Pumping Viscosity at (°C), cP	ASTM D4684	23,000 (-30)
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 10W-30 CK-4	55 Gallon	726-003	0 14168-01825 8	N/A	L 23" x W 23" x H 35"	10.715 / 44.444	453.585 / 1814.34	4 Drums
HD SAE 10W-30 CK-4	330 Gallon	728-002	0 14168-01835 7	N/A	L 48" x W 23" x H 35"	N/A	2581.638	1 Tote
HD SAE 10W-30 CK-4	Bulk	726-001	N/A	N/A	N/A	N/A	N/A	N/A

