



HEAVY DUTY FULL SYNTHETIC 5W-40 ENGINE OIL CK-4

Sinclair Synthetic Premium Heavy Duty Engine Oil SAE 5W-40 is our most advanced premium diesel oil. It meets API CK-4 as required by model-year 2007 and newer diesel engines equipped with advanced emission control systems. Fully backward compatible, it provides significant additional protection for older engines.

Synthetic 5W-40 withstands the stress of heat, soot, and acids far better than conventional oils to help prevent deposits, wear and corrosion. It's high quality synthetic base oil allows it to pump and flow faster to provide exceptional cold-weather starting and maximum fuel efficiency. Formulated with a highly shear-stable viscosity index improver and fortified with advanced detergents and soot dispersants, 5W-40 resists breakdown over extended drain intervals and offers excellent engine 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.
- Where API SN, SM, SL, SH, SG, SF, SE, SD and SC oils are recommended.
- Recommended for use in Caterpillar, Cummins, Detroit Diesel, Mack, Volvo and many imported diesel engines.
- Recommended for 2007 and newer engines with advanced emission control systems engines with Diesel Particulate Filters (DPFs), Exhaust Gas Recirculation (EGR), and Nitrous Oxides (NOx) Catalysts; pre-2007 engines using Ultra-Low Sulfur Diesel (ULSD) or Low Sulfur Diesel (LSD); extreme operating conditions including long hauls, heavy loads and all weather conditions.
- Perfect Product to use in Low Temperature applications due to the tremendous 5W pumpability of this oil in very cold conditions.
- The superior frictional properties of this oil provides improved fuel economy.

PERFORMANCE

- Extended service intervals.
- Outstanding oil consumption control.
- Superior performance over a wide range of fuel sulfur content.
- Excellent soot handling capability.
- Superior deposit control.
- Excellent wear protection.
- Superb oxidation stability.

SPECIFICATIONS/APPROVALS

- API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF and SN, SM, SL, SH, SG, SF
- ACEA E9, E7, E4, E2
- Allison C-4
- Caterpillar ECF-3, ECF-2, ECF-1-a
- Chrysler/Fiat MS-1092
- 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, EO-M
- 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 5W-40 CK-4
Gravity, °API	ASTM D287	33.57
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8572
Viscosity @ 40°C cSt	ASTM D445	87.75
Viscosity @ 100°C cSt	ASTM D445	14.76
Viscosity Index	ASTM D2270	177
Pour Point, °C (°F)	ASTM D5950	-45°C (-49°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	6535 (-30)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	3.5
Noack Volatility, % loss	ASTM D6375	12
Color	ASTM D1500	2.5
Zinc, wt. %	ASTM D5185	0.127
Phosphorus, wt. %	ASTM D5185	0.115
Calcium, wt. %	ASTM D5185	0.082
Sulfur, wt. %	ASTM D4951	0.314
Magnesium, wt. %	ASTM D5185	0.116
Molybdenum, wt. %	ASTM D5185	0.007
Sulfated Ash, wt. %	ASTM D874	0.99
Nitrogen, wt. %	ASTM D4629	0.124
Pumping Viscosity at (°C), cP	ASTM D4684	24,113 (-35)
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 5W-40 CK-4	4/1 Gallon	725-007	0 14168-01822 7	0 14168-01829 6	L 15.875" x W 8.875" x H 12.5"	1.02/ 61.111	32.14 / 1671.28	52 Cases (4 layers of 13)
HD SAE 5W-40 CK-4	55 Gallon	725-003	0 14168-01821 0	N/A	L 23" x W 23" x H 35"	10.715 / 44.444	448.415 / 1793.66	4 Drums
HD SAE 5W-40 CK-4	Bulk	725-001	N/A	N/A	N/A	N/A	N/A	N/A

