



# HEAVY DUTY SYNTHETIC BLEND **15W-40** CK-4

*Sinclair Synthetic Blend 15W-40 CK-4 Engine Oil is specially engineered for heavy duty diesel and gasoline engines operating under all service conditions. A high detergency and outstanding dispersancy keeps engines and pistons clean and soot suspended in the oil despite longer drain intervals and increased soot loading. A higher starting TBN provides added oxidation control and protection against acid build-up that can cause rust and corrosion. The synthetic blend base oil combined with an advanced additive technology provides excellent operating performance under more extreme temperatures.*



## APPLICATIONS

- Where API CK-4, CJ-4, CI-4, CH-4, CG-4, CF-4, CF-2, CF, SL, and SN 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, Navistar, Waukesha, 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.
- Provides the highest level of wear protection.

## PERFORMANCE

- Meets the requirements of Emission Gas Circulation (EGR) or ACERT.
- 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.

### Meets:

Mack EOS-4.5, EO-O Premium Plus 07, EO-N Premium Plus '03, EO-M Plus  
Cummins 20086, CES 20081, 20077, 20076  
Caterpillar ECF-3, ECF-2, ECF-1-a  
Volvo VDS-4.5, VDS-4, VDS-3, VDS-2, VDS  
ACEA E9, E7, E4, E2  
DDC Powerguard 93K222, 93K218, 93K215, 93K214



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## TYPICAL PHYSICAL PROPERTIES

	METHOD	TYPICAL RESULTS
Viscosity Grade		HD Synthetic Blend SAE 15W-40 CK-4
Gravity, °API	ASTM D287	30.55
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8732
Flash Point, °C	ASTM D92	224
Flash Point, °F	ASTM D92	435
Viscosity @ 40°C cSt	ASTM D445	116.1
Viscosity @ 100°C cSt	ASTM D445	15.66
Viscosity Index	ASTM D2270	143
Pour Point °C (°F)	ASTM D5950	-36°C (-33°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	5398 (-20)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	4.3
Noack Volatility, % loss	ASTM D6375	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	21,600 (-25)
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 Synthetic Blend SAE 15W-40 CK-4	55 Gallon	727-003	0 14168-01837 1	N/A	L 23" x W 23" x H 35"	10.715 / 44.444	454.41 / 18	4 Drums
HD Synthetic Blend SAE 15W-40 CK-4	330 Gallon	727-002	0 14168-01834 0	N/A	L 48" x W 48" x H 49"	2552.23	2552.23	1 Tote
HD Synthetic Blend SAE 15W-40 CK-4	Bulk	727-001	N/A	N/A	N/A	N/A	N/A	N/A

