



# HEAVY DUTY ENGINE OILS

## SAE 10, 30, 40

*Sinclair Heavy Duty Engine Oils are specially engineered for heavy duty diesel and gasoline engines operating under all service conditions. Sinclair Heavy Duty Engine Oils contain only high viscosity index lubricating oils and a unique blend of detergents, dispersants, antioxidants and friction modifiers to provide superior performance and protection.*

*Sinclair Heavy Duty oils meet or surpass most domestic and imported heavy-duty truck manufacturers' warranty requirements. It provides excellent oil consumption control, protection against low-temperature and high-temperature deposits, and has outstanding anti-wear characteristics.*

*Please refer to owner's manual for correct viscosity grades.*



## APPLICATIONS

- Where API CI-4, CH-4, CG-4, CF-4, CF-2, CF, CE, CD-II, CD or CC oils are recommended.
- Where API SL, SJ, SH, SG and SF oils are recommended\*
- Recommended for use in Caterpillar, Cummins, Detroit Diesel\*\*, Mack, Navistar, 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.
- Where Allison C4 fluids are recommended (SAE 30, SAE 10).
- In hydraulic systems requiring anti-wear, anti-foam, anti-rust and anti-oxidant properties.
- In Cummins engines, CES 20076\*\*\* and CES 20071\*\*\*
- In MTU/Detroit Diesel Series 4000 Series 2000 engines and MTL 5044.
- In all Mack engines EO-M, EO-M Plus EO-L Plus, EO-L and EO-K/2)\*\*\*.

See Typical Properties chart for specific API performance categories applicable by viscosity grade.

\*\* Detroit Diesel does not recommend the use of multi-viscosity oil in Series 149 engines.

\*\*\* SAE 15W-40

## 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.
- Outstanding protection against viscosity and thermal breakdown
- Superb oxidation stability.



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### TYPICAL PHYSICAL PROPERTIES

Viscosity Grade	METHOD	TYPICAL RESULTS		
		HD SAE 10	HD SAE 30	HD SAE 40
Gravity, °API	ASTM D287	31.27	29.77	
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8693	0.8774	
Viscosity @ 40°C cSt	ASTM D445	39.65	77.57	
Viscosity @ 100°C cSt	ASTM D445	6.58	10.02	
Viscosity Index	ASTM D2270	119	110	
High Temperature / High Shear Vis at 150°C, cP	ASTM D4683			
Color	ASTM D1500	2	2	
Zinc, wt. %	ASTM D5185			
Phosphorus, wt. %	ASTM D5185			
Calcium, wt. %	ASTM D5185			
Sulfur, wt. %	ASTM D4951			
Magnesium, wt. %	ASTM D5185			
Sulfated Ash, wt. %	ASTM D874			
Nitrogen, wt. %	ASTM D4629			
TBN, mgKOH/g	ASTM D2896			

Description	Pack Size	Part #	Each UPC	Case UPC	Case Dimensions	Case Cube / Pallet Cube	Case Weight / Pallet Weight	Pallet Stack
HD SAE 10	5 Gallon	512-008	0 14168-01624 7	N/A	L 12.500 x W 12.500 x H 15.500	1.402 / 60.083	41.289 / 1734.157	42 Eaches (3 layers of 14)
HD SAE 10	55 Gallon	512-003	0 14168-01683 4	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	429.230 / 1716.918	4 Drums
HD SAE 30	6/1 Quart	513-006	0 14168-01611 7	0 14168-01770 1	L 9.500 x W 7.625 x H 9.625	0.403 / 68.194	12.550 / 1957.400	156 Cases (6 layers of 26)
HD SAE 30	6/1 Gallon	513-007	0 14168-01612 4	0 14168-01666 7	L 15.750 x W 13.125 x H 12.750	1.525 / 62.222	49.552 / 1783.875	36 Cases (4 layers of 9)
HD SAE 30	5 Gallon	513-008	0 14168-01625 4	N/A	L 12.500 x W 12.500 x H 15.500	1.402 / 60.083	41.289 / 1734.157	42 Eaches (3 layers of 14)
HD SAE 30	30 Gallon	513-004	0 14168-01729 9	N/A	L 19.500 x W 19.500 x H 29.250	6.437 / 38.056	242.216 / 1211.082	5 Drums
HD SAE 30	55 Gallon	513-003	0 14168-01684 1	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	440.308 / 1761.234	4 Drums
HD SAE 40	5 Gallon	514-008	0 14168-01626 1	N/A	L 12.500 x W 12.500 x H 15.500	1.402 / 60.083	41.435 / 1740.278	42 Eaches (3 layers of 14)
HD SAE 40	55 Gallon	514-003	0 14168-01685 8	N/A	L 23.000 x W 23.000 x H 35.000	10.715 / 44.444	435.276 / 1741.103	4 Drums

