



CK-4 Heavy-Duty Engine Oil

DESCRIPTION

VP Racing CK-4 Heavy-Duty Engine Oil is specially formulated for engines operating under severe conditions and in a wide-range of operating climates and ambient temperatures. It meets the latest requirements of U.S. Tier 4 and European EURO VI emission standards for long-lasting protection of diesel engines equipped with diesel particulate filters (DPF). CK-4 HD Engine Oil is compounded with advanced additive and friction reducing chemistry that delivers superior wear protection, optimum fuel economy and long-lasting soot and oxidation control to support maximum service intervals.

PERFORMANCE BENEFITS

- Superior anti-wear properties protect critical engine components
- Special friction optimized chemistry delivers optimal fuel economy
- Ultimate low-temperature performance for reliable oil flow and cold-start protection
- Enhanced detergency properties protect pistons and rings from carbon deposits
- Advanced dispersants keep soot in suspension and reduces oil thickening in extended intervals
- Excellent TBN retention neutralizes acidic engine conditions in extended service intervals
- Long-term protection of DPF and exhaust gas recirculation (EGR) NOx reduction systems
- Proven technology with over 40 million miles of field testing across major engine platforms

PRODUCT APPLICATION

VP Racing CK-4 HD Engine Oil is recommended for the following heavy-duty engine oil recommendations:

Exceeds **API Service Categories CK-4**, CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, CF-4 & Gasoline engines SN, SM & SL
 Exceeds **ACEA E7/E9-2012** performance standards (E9-2016 ready)
 Exceeds Engine Manufacturer Performance Requirements: **Caterpillar ECF-3**, ECF-2 & ECF-1, **Cummins CES 20086**, 20081, 20077, 20076, 20071, **Detroit Diesel 93K222** & 93K218, **Mack EOS-4.5**, EO-O Premium Plus 07, EO-N, EO-M Plus, EO-L Plus, **Mercedes Benz (Daimler) 228.31** & 228.3, Chrysler MS-10902 & MS 6395-G, Ford WSS-M2C171-F1 & WSS-M2C171-E, MIL-L-2104E, Allison C-4, Caterpillar TO-2, Department of Defense CID-a-a-52306A2 & A-A-52039A3, Navistar (International), John Deere, **Deutz DQC III-10-LA** & III-05, AGCO (Allis Chalmers), **Volvo VDS-4.5** & VDS-4, PACCAR, **MAN M3775**, JASO DH-2, **MTU 2.1**, **Renault RLD-4** & RDL-3, Global DHD-1

Typical Physical Properties		
Property	Method	
SAE Grade		15W-40
Viscosity, cSt @40°C	D-445	87.8
Viscosity, cSt @100°C	D-445	14.8
Viscosity Index	D-2270	175
Specific Gravity @60°F	D-1250	0.857
Flash Point, COC, °C(°F)	D-92	225 (437)
Pour Point, °C(°F)	D-97	-40 (-40)
Total Base Number (TBN)	D-2896	10.0
Sulfated Ash, wt %	D-4929	<1.0
Minor variations in physical test results may occur through normal manufacturing		

Always consult original equipment manufacturer’s lubricant recommendation for proper fluid application.

