


**FULL SYNTHETIC**

# HEAVY DUTY ENGINE OIL

**RIDGELINE™**
**SAE 0W-40 CK-4**

## PRODUCT DESCRIPTION

RIDGELINE™ SAE 0W-40 CK-4 is a high performance, full synthetic heavy duty engine oil formulated for modern diesel powered engines operating across a range of severe applications. This oil offers excellent shear stability and is reliable for extreme cold engine start-up. Advanced API CK-4 additive technology is fully backwards compatible with, and replaces, service categories CJ-4, CI-4 Plus, and previous.

## APPLICATIONS

This product and grade is a fuel economy and mixed fleet engine oil recommended for naturally aspirated and turbocharged four-stroke diesel engines in which the API CK-4 service categories are recommended. It is formulated for engines operating under severe service and a wide range of cold and hot temperatures.

## FEATURES AND BENEFITS

- Provides outstanding engine wear protection
- Helps reduce friction and prevent deposits and sludge buildup
- Provides excellent engine heat protection
- Helps to control oxidation to prevent thermal breakdown to maintain excellent viscosity



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## SPECIFICATIONS

RIDGELINE™ Full Synthetic 0W-40 CK-4 Heavy Duty Engine Oil meets the requirements of the following engine specifications:

- API CK-4, API CJ-4, API CI-4 Plus, CI-4, CH-4, CG-4, CF-2, CF
- API SN, API SM, API SL
- Allison C-4
- CAT ECF-3, ECF-2, ECF-1-a
- Chrysler/Fiat MS-10902
- Cummins CES 20086, 20081, 20077, 20076
- Detroit Diesel 93K222, 93K218, 93K215, 93K214
- Ford WSS-M2C171-F1, E
- Global DHD-1
- JASO DH-2
- Mack EOS-4.5, EO-O Premium Plus, Premium Plus '07, EO-N Premium Plus 03, & prior
- MAN 3575 , 3275
- MB 228.3, 228.31
- MTU 2.1, Type I, Type II
- Renault RLD-4, RLD-3
- Volvo VDS-4.5, 4, 3, 2

## TYPICAL PROPERTIES

Property	Test Method	0W-40 CK-4
Gravity, °API	ASTM D287	35.07
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8495
Flash Point, °C	ASTM D92	225
Flash Point, °F	ASTM D92	437
Viscosity @ 40°C, cSt	ASTM D445	82.93
Viscosity @ 100°C, cSt	ASTM D445	14.73
Viscosity Index	ASTM D2270	187
Pour Point, °C (°F)	ASTM D5950	-51°C (-60°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	5800 (-35)
Noack Volatility, % loss	ASTM D6375	12
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
TBN, mgKOH/g	ASTM D2896	10
Pumping Viscosity at (°C), cP	ASTM D4684	21,600 (-25)
TBN, mgKOH/g	ASTM D2896	10

The physical property values above are typical of normal production and may vary.

## DISCLAIMER

Always follow OEM recommendations for fluid viscosity and API service category. Parkland Fuel Corporation takes no responsibility for product misuse or misapplication.

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