

## SYNTHETIC BLEND



# HEAVY DUTY ENGINE OIL

## SAE 10W-30 CK-4

### PRODUCT DESCRIPTION

**RIDGELINE™ HEAVY DUTY ENGINE OIL SAE 10W-30 CK-4** is a high performance, synthetic blend heavy duty engine oil, formulated to meet or exceed the latest API diesel engine oil specifications as well as the warranty and performance requirements of most diesel engine manufacturers. 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 are diesel 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
- It is backward compatible for CJ-4 and older API service categories
- Approved by or meets requirements of major OEMs such as Cummins, Detroit Diesel, Mack/Volvo, Paccar, Navistar, Caterpillar, and others
- Suitable for use in virtually all heavy-duty engines, on and off-highway, including road transport, heavy construction, agriculture, mining, logging, and pick-up trucks

### FEATURES AND BENEFITS

- Meets the requirements of Exhaust Gas Recirculation (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
- Exceptional engine cleanliness



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## SPECIFICATIONS

RIDGELINE™ Heavy Duty Engine Oil SAE 10W-30 CK-4 meets or exceeds the requirements of the following engine specifications.

- API CK-4, CJ-4, CI-4 Plus, CI-4, CH4, CG-4, CF-2, CF
- ACEA E9, E7, E4, E2
- JASO DH-2
- John Deere
- Ford WSS-M2C171-F1, WSS-M2C171-E
- Mack EO-O Premium
- Plus, EO-N Premium Plus 03, EO-M Plus, and prior, Mack EOS-4.5
- CAT ECF-3, ECF-2, ECF-1-a
- Cummins CES 20081, 20077, 20076, 20086
- Detroit Diesel 93K218, 93K215, 93K214, 93K222
- CID A-A-52306, MIL-PRF-2104G
- MAN 3275, 270, 3575
- MB 228.3, 228.31
- MTU Type I, Type II, 2.1
- Renault RLD-4
- Volvo VDS-4.5, 4, 3, 2
- Global DHD-1

## TYPICAL PROPERTIES

Property	Test Method	10W-30 CK-4
Gravity, °API	ASTM D287	30.77
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.872
Flash Point, °C	ASTM D92	220
Flash Point, °F	ASTM D92	428
Viscosity @ 40°C, cSt	ASTM D445	80.28
Viscosity @ 100°C, cSt	ASTM D445	12.07
Viscosity Index	ASTM D2270	146
Pour Point, °C (°F)	ASTM D5950	-39°C (-38°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	5856 (-25)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	3.5
Noack Volatility, % loss	ASTM D6375	13
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	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	23,000 (-30)
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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