


RIDGELINE™
FULL SYNTHETIC
SAE 5W-40
HEAVY DUTY ENGINE OIL

PRODUCT DESCRIPTION

RIDGELINE™ SAE 5W-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
- 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



FEATURES AND BENEFITS

- Meets the requirements of Exhaust Gas Recirculation (EGR) or ACERT
- Capable of 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
- Superb oxidation stability
- Increased fuel efficiency*
- Exceptional engine cleanliness
- Provides excellent oil flow in extreme low-temperature conditions

*When compared to conventional 15W-40

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Parkland Fuel Corporation
1800, 240 4 Ave SW, Calgary, AB T2P 4H4

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SPECIFICATIONS AND APPROVALS

RIDGELINE™ SAE 5W-40 CK-4 meets the requirements of the following engine specifications:

- API SN, SM, SL, SJ, SH, SG, SF, SE, SD, SC
- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, CF-2, CF
- 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
- JASO DH-2
- ACEA E9, E7, E4, E2
- Allison C-4

TYPICAL PROPERTIES

Property	Test Method	5W-40 CK-4
Gravity, °API	ASTM D287	33.71
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8565
Flash Point, °C	ASTM D92	225
Flash Point, °F	ASTM D92	437
Viscosity @ 40°C, cSt	ASTM D445	91.34
Viscosity @ 100°C, cSt	ASTM D445	14.46
Viscosity Index	ASTM D2270	167
Pour Point, °C (°F)	ASTM D5950	-45°C (-49°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	6290 (-30)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	3.5
Noack Volatility, % loss	ASTM D6375	12
Color	ASTM D1500	2.5
Zinc, wt. %	ASTM D5185	0.127
Phosphorus, wt. %	ASTM D5185	0.115
Calcium, wt. %	ASTM D5185	0.082
Sulfur, wt. %	ASTM D4951	0.314
Magnesium	ASTM D5185	0.116
Molybdenum, wt. %	ASTM D5185	0.007
Sulfated Ash, wt. %	ASTM D874	0.99
Nitrogen, wt. %	ASTM D4629	0.124
Pumping Viscosity at (°C), cP	ASTM D4684	24,113 (-35)
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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