



SYNTHETIC BLEND

HEAVY DUTY ENGINE OIL

SAE 15W-40, SAE 10W-30

RIDGELINE™

PRODUCT DESCRIPTION

RIDGELINE™ Synthetic blend heavy duty engine oil is 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 is 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™ Synthetic Blend Heavy Duty Engine Oils meet the requirements of the following engine specifications:

Claims	15W-40 CK-4	10W-30 CK-4
API CK-4	●	●
API CJ-4	●	●
API SN	●	
ACEA E9, E7	○	○
Allison C-4	○	
API CI-4 Plus, CI-4, CH-4, CG-4, CF-2, CF	○	○
API SH, SG, SF, SE, SD, SC	○	
API SL	○	
API SM	○	
CAT ECF-3, ECF-2, ECF-1-a	○	○
Chrysler/Fiat MS-10902	○	○
Cummins 20086	○	○
Cummins CES 20081, 20077, 20076	○	○
Detroit Diesel 93K218, 93K215, 93K214	○	○
Detroit Diesel 93K222	○	○
Ford WSS-M2C171-E	○	○
Ford WSS-M2C171-F1	○	○
Global DHD-1	○	○
JASO DH-2	○	○
Mack EO-0 Premium Plus, EO-N Premium Plus 03, EO-M Plus, and prior	○	○
Mack EOS-4.5	○	○
MAN 3275, 270	○	○
MAN 3575	○	○
MB 228.3, 228.31	○	○
MTU 2.1	○	○
MTU Type I, Type II	○	○
Renault RLD-4	○	○
Volvo VDS-4, 3, 2	○	○
Volvo VDS-4.5	○	○
● = Approved ○ = Meets Requirements		

TYPICAL PROPERTIES

Property	Test Method	15W-40 CK-4	10W-30 CK-4
Gravity, °API	ASTM D287	30.55	30.77
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8732	0.872
Flash Point, °C	ASTM D92	224	220
Flash Point, °F	ASTM D92	435	428
Viscosity @ 40°C, cSt	ASTM D445	116.1	80.28
Viscosity @ 100°C, cSt	ASTM D445	15.66	12.07
Viscosity Index	ASTM D2270	143	146
Pour Point, °C (°F)	ASTM D5950	-36°C (-33°F)	-39°C (-38°F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	5398 (-20)	5856 (-25)
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	4.3	3.5
Noack Volatility, % loss	ASTM D6375	10	13
Color	ASTM D1500	3.5	3
Zinc, wt. %	ASTM D5185	0.124	0.127
Phosphorus, wt. %	ASTM D5185	0.12	0.115
Calcium, wt. %	ASTM D5185	0.225	0.105
Sulfur, wt. %	ASTM D4951	0.32	0.32
Magnesium	ASTM D5185	0	0.1
Molybdenum, wt. %	ASTM D5185	0.009	0.0066
Sulfated Ash, wt. %	ASTM D874	0.99	0.99
Nitrogen, wt. %	ASTM D4629	0.184	0.105
Pumping Viscosity at (°C), cP	ASTM D4684	21,600 (-25)	23,000 (-30)
TBN, mgKOH/g	ASTM D2896	10	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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