



Hyperion Synthetic Blend CK-4

Bel-Ray® Hyperion Synthetic Blend CK-4 is formulated for use in high-speed four-stroke cycle diesel engines designed to meet 2017 model year on-highway and Tier 4 non-road exhaust emission standards as well as for previous model year diesel engines. This oil is formulated to use in all applications with diesel fuels ranging in sulfur content up to 500 ppm. Bel-Ray® Hyperion Synthetic Blend CK-4 is designed to provide enhanced protection against oil oxidation, viscosity loss due to shear, and oil aeration as well as protection against catalyst poisoning, particulate filter blocking, engine wear, piston deposits, degradation of low- and high-temperature properties, and soot-related viscosity increase.

VEHICLE BENEFITS

- Protects emission control systems
- Outstanding oxidation stability
- Synthetic Blend formulation
- Universal product for mixed fleet operations
- Excellent low temperature properties helps speed cold starts

APPLICATIONS

- Bel-Ray® Hyperion Synthetic Blend CK-4 10W-30 meets API Service Classification CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4.
- Bel-Ray® Hyperion Synthetic Blend CK-4, SN 15W-40 meets API Service Classification CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, SN.
- Both viscosities have OEM Approvals for Ford® Specification WSS-M2C171-F1, Cummins® CES 20086, Detroit™ DFS 93K222, Mack® EOS-4.5, Volvo® VDS-4.5 and Renault® RLD-4. They also meet or exceed requirements for Caterpillar® ECF-3, ECF-2, Cummins® CES 20081, Daimler MB228.31, Detroit™ DFS 93K218, Mack® EO-O Premium Plus, EO-N, MAN M3575, MTU Category 2.1, Renault® RLD-3, and Volvo® VDS-4, VDS-3 and ACEA E9 and ACEA E7.

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Typical Physical Properties

Property	Test Method	10W-30	15W-40
API Service		CK-4	CK-4/SN
API Gravity @ 60°F	ASTM D4052	29.9	31.6
Density@15°C, g/cm ³	ASTM D4052	0.876	0.867
Viscosity @ 40°C, cSt	ASTM D445	82.9	116
Viscosity @ 100°C, cSt	ASTM D445	12.3	15.7
Viscosity Index	ASTM D2270	146	143
Flash Point, °C (°F)	ASTM D92	238 (460)	238 (460)
Pour Point, °C (°F)	ASTM D97	-33 (-27)	-33 (-27)
CCS, cP	ASTM D5293	5,970 / -25°C	5,250 / -20°C
MRV, cP	ASTM D4684	21,900 / -30°C	19,700 / -25°C
HTHS, @150°C, cP	ASTM D4683	3.5	4.1
TBN, mg KOH/g	ASTM D2896	10	10
Sulfated Ash, wt. %	ASTM D874	1.0	1.0
Noack Volatility, wt%	ASTM D5800B	12	12
Zinc, wt%	ASTM D6481	0.127	0.127
Pounds Per Gallon	ASTM D1250	7.22	7.30

Minor variations in typical physical properties may occur from normal manufacturing processes

DISTRIBUTED BY:

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