

Hyperion® Elite Synthetic Engine Oil

PRODUCT DESCRIPTION

Bel-Ray® Hyperion® Elite Synthetic is formulated for use in high-speed four-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 for use in all applications with diesel fuels ranging in sulfur content up to 500 ppm. The full synthetic base oils used in Hyperion Elite Synthetic provide outstanding lubricity and cold-flow, and excellent resistance to high-temperature degradation. The advanced additive package in this formulation reduces viscosity loss due to shear, and oil aeration. Also, this state of the art, low-ash formulation provides protection against catalyst poisoning and particulate filter blocking, while preventing deposit formation and soot-related viscosity increase.

PRODUCT FEATURES

- Exceeds API CK-4/SN performance standards
- Formulated with synthetic base stocks for maximum resistance to thermal breakdown
- Optimum oxidation stability and volatility properties reduce oil consumption between services
- Advanced additive technology Increases resistance to sludge formation and piston deposits
- Carries API license for diesel (CK-4) and gasoline (SN) engine use

BENEFITS

- Superior wear protection as established in API CK-4 specification
- Optimum fuel economy
- Excellent low-temperature performance for cold starts
- Enhanced protection for exhaust SCR catalysts and particulate filters
- Advanced shear stability and low volatility properties support extended service intervals
- Maximum overall engine protection

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7/27/2026

APPLICATIONS

	5W-40
API CK-4/SN*	X
ACEA E11-2022, E7-2022	•
CAT ECF-3, ECF-2	•
Cummins CES20086, CES20081	•
Detroit Diesel 93K222, 93K218	•
Ford WSS-M2C171	•
Mack EOS-4.5, EO-O Premium Plus, EO-N	•
MTU 2.1	•
Renault RLD-4, RLD-3	•
Volvo VDS-4.5, VDS-4, VDS-3	•

X - Formally licensed / registered

• - Recommended for use / meets requirements

*Backwards compatible with prior requirements

PRODUCT DATA

Typical Properties		
Property	Test Method	5W-40
Density @ 15°C (g/mL)	ASTM D4052	0.853
Viscosity @ 40°C (cSt)	ASTM D445	93.3
Viscosity @ 100°C (cSt)	ASTM D445	15.2
Viscosity Index	ASTM D2270	172
Flash Point, °C (°F)	ASTM D92	224 (435)
Pour Point, °C (°F)	ASTM D97	-48 (-54)
Cold Crank Simulator, cP	ASTM D5293	6,370 @ -30°C
Total Base Number, mg KOH/g	ASTM D2896	10.1
Sulfated Ash (Wt %)	ASTM D874	1.0

HEALTH and SAFETY

Health and safety recommendations for products can be found on the Safety Data Sheet (SDS) at www.belray.com

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