

**DESCRIPTION**

**Longlife Elite Heavy-Duty Engine Oil** is a premium full synthetic, multi-viscosity diesel engine lubricant engineered for severe-service heavy-duty and light-duty commercial fleets operating in demanding conditions. Formulated with high-quality synthetic base stocks and advanced viscosity index improvers, it delivers exceptional low-temperature fluidity for reliable cold starts and robust shear stability under high mechanical stress. Certified to API CK-4 and backward compatible with prior categories, it ensures full compatibility with modern diesel engines. Advanced additive technology provides superior anti-wear protection, enhanced oxidation stability, outstanding piston deposit control, and low volatility to minimize wear, prevent sludge, maintain cleanliness, reduce oil consumption, and support extended drain intervals per OEM guidelines. Ideal for long-haul trucking, construction, mining, and agriculture, **Longlife Elite HDEO** maximizes engine durability, fuel economy, uptime, and fleet cost efficiency across broad temperature ranges and stringent emissions requirements.

**APPLICATIONS**

**Longlife Elite Heavy-Duty Engine Oil** is formulated for diesel engines requiring extended drain intervals and extreme condition performance.

- Optimized for commercial trucking and fleets in long-haul, short-haul, and mixed-fleet operations, including cold climates.

**SPECIFICATIONS & RECOMMENDATIONS**

- API CK-4 and all previous API "C" categories
- Detroit Diesel
- ILSAC GF-5
- Delaval Enterprises.
- Ford WSS-M2C171-F1

**ADVANTAGES & BENEFITS**

- **Optimized Performance:** Formulated for a wide range of engine types, delivering superior lubrication for both modern and legacy systems to ensure reliable operation.
- **Enhanced Efficiency:** Advanced soot control, thermal/oxidative stability, and resistance to sludge, varnish, nitration, and oxidation maintain engine cleanliness and oil integrity under demanding conditions.
- **Comprehensive Wear Protection:** Robust anti-wear/anti-scuff properties and excellent start-up lubrication minimize damage to pistons, rings, liners, bearings, and other critical components for extended durability.
- **Superior Corrosion Control:** High TBN reserves and effective acid neutralization safeguard metal surfaces against corrosion and acid buildup.
- **Low-Temperature Performance:** Exceptional fluidity ensures reliable cold-weather start-up and consistent lubrication.
- **Cost-Saving Longevity:** Low ash/phosphorus formulation, water tolerance, and extended drain intervals reduce maintenance costs and downtime.
- **Deposit & Efficiency Control:** Advanced detergents prevent deposit formation, maintaining viscosity, wear rates, and engine efficiency for optimal performance.

**HEALTH & SAFETY**

This product is not anticipated to pose any adverse health risks when used as intended.

For additional details, refer to separate Safety Data Sheets, available upon request.


**TECHNICAL DATA/TECHNICAL PROPERTIES**

PROPERTIES	SAE GRADE	
	5W-40	15W-40
Color	Amber	Amber
Viscosity @ 100 °C, cSt	12.5 – 16.3	12.5 – 16.3
Viscosity Index	148	145
Pour Point, °C(°F)	-45(-49)	-45(-49)
Flash Point, °C(°F)	>220(428)	>220(428)
Cold crank simulator, cP	-30/<6,600	-20/<7,000
Noack Volatility	<13%	<13%
Product Code	LLEHDEO-5W40	LLEHDEO-15W40

\*All properties are typical and may vary.

Always adhere to the manufacturer's guidelines for the correct equipment fluid. Lubchem Specialties is not liable for any misuse of the product or improper application.

Lubchem Specialties, LLC

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