

**DESCRIPTION**

**Longlife Premium Heavy-Duty Engine Oil**, a semi-synthetic, multi-grade lubricant, is optimized for cold climates with premium base oils and advanced viscosity index improvers for superior low-temperature fluidity and shear stability. It meets API CK-4 standards, ensuring compatibility with heavy-duty and light-duty commercial equipment, including after-treatment-equipped diesel engines. The oil offers exceptional anti-wear properties, minimizing component degradation under high-load conditions. Its enhanced oxidation resistance prevents oil thickening and sludge formation, promoting engine cleanliness. Outstanding piston deposit control supports combustion efficiency and enables extended drain intervals, reducing maintenance costs. Low volatility and high shear strength minimize oil consumption and maintain viscosity integrity in severe conditions. A broad operating temperature range ensures reliable cold-start performance and protection in high-temperature environments. This versatile lubricant, ideal for long-haul trucking, construction, mining, and agriculture, meets stringent fuel economy standards, delivering maximum engine durability and uptime across diverse applications.

**APPLICATIONS**

**Longlife Premium 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.

**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.
- **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		
	10W-30	15W-40	15W-50
Color	Amber	Amber	Amber
Viscosity @ 100 °C, cSt	9.3 – 12.5	12.5 – 16.3	16.3 – 21.9
Viscosity Index	145	147	150
Pour Point, °C(°F)	-39(-38)	-36(-33)	-36(-33)
Flash Point, °C(°F)	>220(428)	>220(428)	>220(428)
Cold crank simulator, cP	-25/<7,000	-20/<7,000	-20/<7,000
Noack Volatility	<13%	<13%	<13%
Product Code	LLPHDEO-10W30	LLPHDEO-15W40	LLPHDEO-15W50

\*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.