

## PRODUCT DESCRIPTION

**LEAD GIGA 10000** is an extra high-performance diesel engine oil that helps extend engine life in the most severe on and off-highway applications while delivering outstanding performance in modern, high-output, low-emission engines including those with Exhaust Gas Recirculation (EGR) and After-treatment Systems with Diesel Particulate Filters (DPFs) and Diesel Oxidation Catalysts (DOCs).

## APPLICATION

This product meets or exceeds the requirements of the latest API and ACEA industry specifications for diesel engine oils, as well as the requirements of many major American, and European engine manufacturers. Recommended for use in a wide range of heavy-duty applications and operating environments found in the on-road transport and off-road mining, forestry, construction, and agricultural industries.

## PROPERTIES

- Outstanding thermal and oxidative stability
- Excellent TBN reserves
- Stay-in-grade shear stability
- Excellent low temperature pumpability

## PERFORMANCE LEVELS

Meets and exceeds:

API CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4, CF ; API SM, SL, SJ, SH, SG, SF ; ACEA E7/E9 ; Recommended for use in Caterpillar, Cummins, Detroit Diesel, Mack, Volvo, Scania, Renault, Iveco and many diesel engines.

## TYPICAL PROPERTIES

PARAMETERS	TEST METHOD	UNIT	KP GIGA 10000			
			5W30	10W30	10W40	15W40
Viscosity Grade			5W30	10W30	10W40	15W40
Density @ 15°C	ASTM D1298	kg/l	0.854	0.854	0.854	0.854
Viscosity @ 100°C	ASTM D445	cSt	12	10.5	12	10.5
Viscosity @ 40°C	ASTM D445	cSt	68.5	60	68.5	60
Viscosity Index (min)	ASTM D2270	-	170	≥150	170	≥150
Cold Crank Simulator	ASTM D5293	cP	<6,200 @ -35 °C	<6,600 @ -30 °C	<6,200 @ -35 °C	<6,600 @ -30 °C
Pour Point	ASTM D97	°C	-45	-36	-45	-36
Flash Point	ASTM D92	°C	>230	>230	>230	>230
Total Base Number (TBN)	ASTM D2896	KOH/g	9	9	9	9

The values shown above are typical values at the date of publication. Kingdom Petroleum reserves the right to change these typical values without prior notice

## HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website [www.leadpetroleum.com](http://www.leadpetroleum.com).