

# KLONDIKE Commercial HD Engine Oil SAE 10W-30 CK-4, 15W-40 CK-4



## PRODUCT DESCRIPTION

KLONDIKE Commercial HD Engine Oils are mixed fleet engine oils recommended for naturally aspirated and turbocharged diesel engines where API CK-4 or previous service categories are specified.

## APPLICATIONS

KLONDIKE Commercial HD Engine Oil is engineered for engines operating under severe service in a wide range of climatic conditions and ambient temperatures. Ideal for use in naturally aspirated and turbocharged heavy duty diesel engines in mobile and stationary equipment where the API CK-4 service category is specified. Advanced API CK-4 additive technology is fully backwards compatible with, and replaces service categories CJ-4, CI-4 Plus, and previous.

Some typical applications include:

- Current on-highway low emission diesel engines running on ultra-low sulfur diesel fuel.
- Current off-highway engines including those adapted for future emissions standards in construction, agriculture, marine, and mining applications.
- Mixed fleets where product consolidation is desired for performance and economics.



## FEATURES AND BENEFITS

KLONDIKE Commercial HD Engine Oil is a premium engine oil engineered to deliver outstanding wear protection and performance in heavy duty diesel engines. Formulated using premium base oils and carefully balanced additive technology, these engine oils deliver outstanding performance for on and off-highway heavy duty engine applications operating under high-load, high-stress conditions in all climates.

KLONDIKE Commercial HD Engine Oils employ proven additive technology which delivers outstanding control on engine wear, engine cleanliness, and high TBN and viscosity retention for extended lubricant life and engine durability. Metal anti-wear protection exceeds API CK-4 standards and tough OEM specifications.

KLONDIKE Commercial HD Engine Oils meet the stringent requirements of API Service Category CK-4 for heavy duty diesel engines running on Ultra Low Sulfur Diesel (ULSD) and equipped with advanced after treatment devices. Exceeds all soot control and particulate requirements of current emission control systems such as Exhaust Gas Recirculation (EGR), Diesel Particulate Filter (DPF), or Selective Catalytic Reduction (SCR).

KLONDIKE Commercial HD Engine Oil delivers value through the following benefits:

- **Premium base oil** – excellent all-season performance characteristics.
- **Engine efficiency** – advanced additive technology keeps internal engine components clean, reduces oil consumption for long service life.
- **Outstanding anti-wear** – wear protection exceeds API CK-4 and tough OEM specifications even in severe service applications for maximum engine durability.
- **Emission compliant** – fully compliant with all current emission control equipment. Promotes extended DPF life helping to minimize maintenance costs.
- **Extended service life** – outstanding TBN and high viscosity retention supports extended lubricant life when used with regular oil testing.



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## SPECIFICATIONS AND APPROVALS

KLONDIKE Commercial HD Engine Oils meet the following specifications:

- **API Service Categories** – CK-4, CJ-4 (and previous)
- **Caterpillar**® – ECF-3, ECF-2, ECF-1a
- **Cummins**® – CES 20086, 20081 (and previous)
- **Daimler** – MB 228.31, 228.3
- **Detroit Diesel**® – 93K222, 93K218 (and previous)
- **Deutz** – DQC III-10LA
- **FCA** – MS-10902
- **FORD** – WSS-M2C171-F1
- **Global** – DHD-1
- **JASO** – DH-2, DH-1
- **Mack**® – EOS-4.5, EO-O (and previous)
- **MTU** – Type 2.1
- **Volvo**® – VDS-4.5, VDS-4 (and previous)

Other applicable uses may exist. Please contact KLONDIKE for more information.

## TYPICAL TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	10W-30 CK-4	15W-40 CK-4
Specific Gravity @ 15.6°C	ASTM D4052	0.865	0.86
Viscosity @ 40°C (cSt)	ASTM D445	82	110
Viscosity @ 100°C (cSt)	ASTM D445	12.25	15.0
Viscosity Index	ASTM D2270	145	142
Flash Point °C	ASTM D92	238	224
Pour Point °C	ASTM D5950	-39	-38
Cold Cranking Simulator @ cP	ASTM D5293	6200 (-25°C)	5000 (-20°C)
Color	ASTM D1500	4.0	3.5
Zinc, wt %	ASTM D5185	0.110	0.11
Phosphorus, wt. %	ASTM D5185	0.101	0.1
Calcium wt. %	ASTM D5185	0.242	0.24
Sulfated Ash, wt %	ASTM D874	1.0	1.0
Pumping Viscosity (MRV), cP	ASTM D4684	24,000 (-30°C)	25,000 (-25°C)
TBN, mgKOH/g	ASTM D2896	10	10

All stated physical properties are typical of standard production and may vary.



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## HEALTH AND SAFETY

This product is not expected to have adverse health implications when used for its intended application. For detailed information on safe handling of this product, refer to its Material Safety Data Sheet (MSDS). To obtain an MSDS on this or any other KLONDIKE product, please visit [www.klondikelubricants.com](http://www.klondikelubricants.com) or call 1-877-293-4691. When disposing of used product, be responsible to the environment.

## DISCLAIMER

Always follow OEM recommendations for fluid viscosity and API service category. Follow OE recommended service and/or oil change interval based on service type, or with the support of a reputable oil analysis program. KLONDIKE takes no responsibility for product misuse or misapplication.

## PRODUCT NUMBERS

10W-30 CK-4 COMMERCIAL	EZE-KEG: 52 L / 13.74 GAL	KL-HD0284
	Drum: 208 L / 55 GAL	KL-HD0290
	Tote: 1040 L / 275 GAL	KL-HD0295
15W-40 CK-4 COMMERCIAL	Pail: 18.9 L / 5 GAL	KL-HD0780
	Drum: 208 L / 55 GAL	KL-HD0790
	Tote: 1040 L / 275 GAL	KL-HD0795

## BRAVING THE FORCE OF MOVEMENT

KLONDIKE stands for robust, reliable, high quality products tailored to suit the requirements of the on- and off-road heavy duty, automotive and industrial markets. Our solutions span from trend-setting retail lubricants through small-batch custom formulations to large bulk orders ready for immediate delivery.

The extensive KLONDIKE product range includes premium oils, lubricants, greases, chemicals and specialty fluids formulated with virgin base oils and protective inhibitors. Designed to handle the most extreme climates and operating conditions, the KLONDIKE products protect and extend the life of your equipment, optimize performance and improve productivity while meeting and exceeding industry standards and specifications.

### KLONDIKE Lubricants Corporation

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