

# KLONDIKE SAE 15W-40 CJ-4 Heavy Duty Engine Oil



## PRODUCT DESCRIPTION

KLONDIKE SAE 15W-40 CJ-4 Heavy Duty Engine Oil is a premium heavy duty engine oil engineered with Million Mile additive technology and recommended for naturally aspirated and turbocharged diesel engines in which the API CJ-4 service category and SAE 15W-40 viscosity grade are specified.

## APPLICATIONS

KLONDIKE SAE 15W-40 CJ-4 Heavy Duty Engine Oil is specifically engineered for engines operating under severe service in a wide range of climatic conditions and ambient temperatures. An ideal mixed fleet engine oil designed for naturally aspirated and turbocharged heavy duty diesel engines in mobile and stationary equipment where the API CJ-4 service category and SAE 15W-40 viscosity grade is specified.

KLONDIKE SAE 15W-40 CJ-4 Heavy Duty Engine Oil also meets the requirements of Allison® C-4 for use in transmissions requiring a fluid of this type.

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.
- Heavy duty transmissions requiring fluid meeting Allison® C-4 specification.



OEM certified by:



## FEATURES AND BENEFITS

KLONDIKE SAE 15W-40 CJ-4 is a premium heavy duty engine oil engineered to deliver outstanding wear protection and performance in modern heavy duty diesel engines. Formulated with premium base oils and carefully balanced additive technology, this advanced engine oil will deliver outstanding long-term performance for on and off-highway heavy duty engine applications operating under high-load, high-stress conditions in all climates.

KLONDIKE SAE 15W-40 CJ-4 Heavy Duty Engine Oil contains field proven Million Mile additive technology which delivers maximum control on engine wear, outstanding engine cleanliness, and high TBN and viscosity retention for outstanding lubricant life and maximum engine durability. Metal anti-wear protection exceeds API CJ-4 standards and tough OEM specifications.

KLONDIKE SAE 15W-40 CJ-4 Heavy Duty Engine Oil is designed specifically to meet the stringent requirements of API Service Category CJ-4 used in 2007 and later model diesel engines running on Ultra Low Sulfur Diesel (ULSD) and equipped with 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 SAE 15W-40 CJ-4 Heavy Duty 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 CJ-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 SAE 15W-40 CJ-4 Heavy Duty Engine Oil meets the requirements of the following specifications and is recommended for use in:

- **ACEA** – European Service Categories E9, E7
- **Allison**® – C-4
- **API Service Categories** – CJ-4, CI-4 PLUS, CI-4, SN
- **Caterpillar**® – ECF-3, ECF-2, ECF-1a
- **Cummins**® - CES 20081, 20078, 20077
- **Daimler** – MB 228.31, 228.3
- **Detroit Diesel**® – Power Guard 93K218 and previous
- **Deutz** – DQC III-IOLA
- **FORD** - WSS-M2C171-E
- **Global** – DHD-1
- **JASO** – DH-2
- **Mack**® – EO-O Premium Plus and previous
- **MAN** – M 3275, 3575
- **MTU** – Type 2.1, Type I, Type II
- **Renault**® – VI RLD-3
- **Volvo**® – VDS-4, VDS-3

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

## TYPICAL TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	15W-40 CJ-4
Gravity, °API	ASTM D287	29.85
Specific Gravity @ 15.6°C	ASTM D4052	0.880
Viscosity @ 40°C cSt	ASTM D445	114
Viscosity @ 100°C cSt	ASTM D445	15.61
Viscosity Index	ASTM D2270	145
CCS at -20°C, cP (7000 max)	ASTM D5293	5200
Viscosity, MRV, @ -25°C, cP	ASTM D4684	20,000
HTHS Vis at 150°C, cP	ASTM D4683	4.2
Noack Volatility, % loss	ASTM D 5800	12
Pour Point °C	ASTM D5950	-37
Flash Point °C	ASTM D92	210
Zinc, wt. %	ASTM D5185	0.127
Phosphorus, wt. %	ASTM D5185	0.115
Calcium, wt. %	ASTM D5185	0.105
Sulfur, wt. %	ASTM D4951	0.32
Magnesium, wt. %	ASTM D5185	0.1
Molybdenum, wt. %	ASTM D5185	0.0066
Sulfated Ash, wt. %	ASTM D874	0.99
TBN, mgKOH/g	ASTM D2896	10.0
TAN, mgKOH/g	ASTM D664	2.9

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.

### 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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