

# KLONDIKE API SN Multi-Grade Engine Oils: SAE 10W-40, 20W-50 High Mileage



## PRODUCT DESCRIPTION

KLONDIKE Multi-Grade High Mileage Engine Oils are designed for use in passenger cars and light truck applications. API certified formulations meet and exceed automotive manufacturers' warranty requirements.

## APPLICATIONS

KLONDIKE Multi-Grade High Mileage Engine Oils are recommended for passenger cars, light trucks, powerboats, motorcycles, and other four-stroke gasoline powered equipment wherever API SN certified oils are required. For all-season use in engines operating on gasoline, high-ethanol gasoline (E-85), propane, or compressed natural gas (CNG). Enhanced formulation is beneficial for older engines with mileage above 150,000 km's.

KLONDIKE engine oils meet or exceed requirements for North American, Asian, and European vehicles where API SN or previous API service categories are referenced in the appropriate viscosity grades.

Check your owner's manual for specified or recommended fluid viscosity.



## SPECIFICATIONS AND APPROVALS

KLONDIKE Multi-Grade High Mileage Engine Oils meet and exceed the requirements of the following service categories:

- API SN
- API SM, SL, SJ and previous passenger car service
- Meets both domestic and foreign car manufacturers' warranty requirements

## FEATURES AND BENEFITS

KLONDIKE Multi-Grade High Mileage Engine Oils are engineered to perform and are designed to provide outstanding engine protection. These premium engine oils contain only the highest quality, hydrotreated, paraffinic base oils and a technologically advanced additive system, which includes detergents, dispersants, viscosity improver, anti-wear, and anti-friction agents, as well as oxidation and corrosion inhibitors.

KLONDIKE Multi-Grade High Mileage Engine Oils deliver exceptional protection and performance characteristics over the full service interval. These oils deliver exceptional resistance to thermal viscosity breakdown, outstanding low temperature fluidity, and resist engine component wear and deposit formation under severe driving conditions. Specialized additive technology enhances performance in older, high mileage engines by reducing combustion blow-by and resisting leakage from worn oil seals.

KLONDIKE Multi-Grade High Mileage Engine Oils provide value through the following benefits:

- **Extended engine life** – reduced friction for excellent protection against engine wear.
- **High viscosity index** – highly resistant to viscosity and thermal breakdown from extended high temperature operation.
- **Emission compliant** – fights volatility burn-off to minimize engine deposits and exhaust emissions.
- **Energy efficient** – reduced internal engine friction for improved fuel economy.
- **Specialized formula** - reduces combustion blow-by and oil leakage for reduced overall consumption.



**KLONDIKE API SN Multi-Grade Engine Oils: SAE 10W-40, 20W-50****TYPICAL TECHNICAL PROPERTIES**

PROPERTY	TEST METHOD	10W-40 SN	20W-50 SN
Gravity, °API	ASTM D287	31.95	29.63
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8657	0.8782
Viscosity @ 40°C cSt	ASTM D445	94.6	169.8
Viscosity @ 100°C cSt	ASTM D445	14.34	19.0
Pour Point °C	ASTM D5950	-42	-33
Viscosity Index	ASTM D2270	157	127
Cold Cranking Simulator at -25°C, cP	ASTM D5293	4800	7014
High Temperature/High Shear Vis at 150°C, cP	ASTM D5481	4.02	4.85
Noack Volatility, % loss	ASTM D 6375	11.7	5.1
Color	ASTM D 1500	3	3
Zinc, wt. %	ASTM D 5185	0.085	0.085
Phosphorus, wt. %	ASTM D 5185	0.077	0.077
Calcium, wt. %	ASTM D 5185	0.2	0.2
Sulfur, wt. %	ASTM D 4951	0.3	0.3
Boron, wt. %	ASTM D 5185	0.018	0.018
Sulfated Ash, wt. %	ASTM D 874	0.92	0.92
Nitrogen, wt. %	ASTM D 4629	0.084	0.084
Pumping Viscosity at -30°C, cP	ASTM D4684	33,800	21,900
Shear Stability	ASTM D 6278	11.5	15.15
TBN, mgKOH/g	ASTM D 2896	7	7

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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