

# KLONDIKE API SN PLUS/GF-5 Synthetic Blend Multi-Grade Engine Oils: SAE 5W-20, 5W-30, 10W-30



## PRODUCT DESCRIPTION

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

## APPLICATIONS

KLONDIKE Synthetic Blend Engine Oils are recommended for passenger cars, light trucks, and other four-stroke gasoline powered equipment wherever API SN PLUS/ ILSAC GF-5 certified oils are required. For all-season use in engines operating on gasoline, high-ethanol gasoline (E-85), propane, or compressed natural gas (CNG).

KLONDIKE Synthetic Blend Engine Oils meet or exceed new car warranty requirements for North American, Asian, and European vehicles where API SN PLUS/ ILSAC GF-5 is referenced.

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



## SPECIFICATIONS AND APPROVALS

KLONDIKE Synthetic Blend Engine Oils meet and exceed the requirements of the following service categories:

- API SN PLUS / ILSAC GF-5
- API SN SM, SL, SJ and previous passenger car service
- When former MIL L 46152D and CID A A 52039B performance level is required
- Meets both domestic and foreign car manufacturers' warranty requirements
- ILSAC Resource Conserving

KLONDIKE Synthetic Blend Engine Oils are designed to meet the following manufacturers' performance requirements:

- GM 6094M (all SAE grades)
- Ford M2C945-A, M2C930-A, M2C153 (SAE 5W-20)
- Ford M2C946-A, M2C929-A (SAE 5W-30)
- Chrysler MS-6395M, MS-10797 (SAE 5W-20) (all SAE grades)

## FEATURES AND BENEFITS

KLONDIKE Synthetic Blend Multi-Grade Engine Oils are engineered to perform and are designed to provide the highest levels of engine protection available. 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 Synthetic Blend Multi-Grade 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 the most severe driving conditions.

KLONDIKE Synthetic Blend Multi-Grade 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.
- **Efficient** - low friction formulations for improved fuel economy - certified resource conserving.
- **Wide application** - modern additive technology protects new engines as well as older, high mileage engines.



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## TYPICAL TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	KLONDIKE		
		5W-20 SYN BLEND	5W-30 SYN BLEND	10W-30 SYN BLEND
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8635	0.86	0.8635
Viscosity @ 40°C cSt	ASTM D445	48.0	60.2	63.5
Viscosity @ 100°C cSt	ASTM D445	8.4	11.2	10.5
Viscosity Index	ASTM D2270	150	160	142
Pour Point °C (°F)	ASTM D5950	-45°C (-49°F)	-45°C (-49°F)	-42°C (-44°F)
Color	ASTM D 1500	2.5	3	3
Cold Cranking Simulator at (°C), cP	ASTM D5293	5800 (-30)	6100 (-30)	6000 (-25)
High Temperature / High Shear Vis at 100°C, cP	ASTM D 6616	6.01	6.96	7.04
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	2.72	3.15	3.08
Noack Volatility, % loss	ASTM D 6375	14.2	14.0	14.0
Calcium, wt. %	ASTM D 5185	0.19	0.19	0.19
Zinc, wt. %	ASTM D 5185	0.085	0.085	0.085
Phosphorus, wt. %	ASTM D 5185	0.077	0.077	0.077
Sulfur, wt. %	ASTM D 4951	0.3	0.3	0.3
Boron, wt. %	ASTM D 5185	0.018	0.018	0.018
Sulfated Ash, wt. %	ASTM D 874	0.92	0.92	0.92
Nitrogen, wt. %	ASTM D 4629	0.084	0.084	0.084
Pumping Viscosity at (°C), cP	ASTM D4684	20,000 (-35)	26,000 (-35)	24,000 (-30)
Shear Stability	ASTM D 6278	7.31	8.5	9.0
Foam Seq. I (Tendency/Stability), mL	ASTM D 892 (Opt. A)	0/0	0/0	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D 892 (Opt. A)	0/0	0/0	0/0
Foam Seq. III (Tendency/Stability), mL	ASTM D 892 (Opt. A)	0/0	0/0	0/0
High Temperature Foaming, static foam	ASTM D 6082 (Opt A)	30/0	20/0	20/0
Gravity, °API	ASTM D287	32.35	33.3	32.3
TBN, mgKOH/g	ASTM D 2896	7.0	7.0	7.0

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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