

Fully Synthetic

Kixx G1

High grade gasoline engine oil providing excellent protection

- 0W-20 / 0W-30 :
API SN PLUS-RC, ILSAC GF-5



DESCRIPTION

Kixx G1 is formulated from VHVI base oils, high performance additive systems and leading edge viscosity index improver, which meet the requirement of current advanced top-tier engine oil grade of API SN PLUS and ILSAC GF-5.

It is optimized to provide complete engine oil performance, especially fuel efficiency, through friction reduction and enhanced durability. In addition, it also minimizes abrupt damage of key engine components (such as piston rings, connecting rods and so on) by prevention of LSPI (Low Speed Pre-Ignition) phenomena in T-GDI engines.

APPLICATIONS

- Naturally aspirated and T-GDI, GDI engines in passenger cars including SUV
- Gas-fuelled (natural gas and LPG) spark ignition engines where conventional passenger car motor oils are recommended
- Four-stroke gasoline engines in motorcycles and portable power equipment where the manufacturer recommends conventional passenger car motor oils

PERFORMANCE STANDARDS

- API SN PLUS-RC, ILSAC GF-5

CUSTOMER BENEFITS

Superior Low Temperature Performance

Superior low temperature properties with proven metal-organic anti-

wear additives provide easy start-up of engines at extremely low temperature and excellent wear control in even the most sophisticated valve train mechanisms, including those with variable valve timing.

Fuel Efficiency

Specifically tailored viscosity characteristics and effective friction modifier minimize internal engine friction loss which reduces fuel consumption.

Saves on maintenance costs

High thermal stability and excellent oxidation resistance provides outstanding protection against in-service oil degradation that contributes to filter blocking and sludge formation in the oil galleries, crankcase and rocker arm cover.

LSPI Prevention

Advanced additives technology efficiently suppresses LSPI phenomena that occasionally occur in combustion chambers of T-GDI engines.

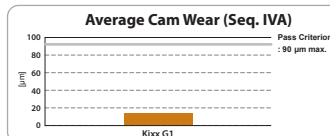
KEY PROPERTIES

SAE Viscosity	0W-20	0W-30
Density, kg/L @15°C	0.845	0.844
Kinematic Viscosity, mm ² /s @ 40°C	48.9	55.3
Kinematic Viscosity, mm ² /s @ 100°C	8.9	10.1
Viscosity Index	164	172
Pour Point, °C	-47	-40
Flash Point, °C	224	222
Package (Liters)	1, 4T, 200	1, 4T, 200

UNIQUE FEATURES

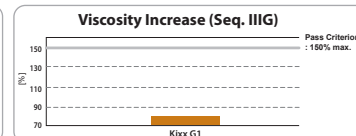
Kixx G1 consists of VHVI base oils and premium additives meeting the requirements of API SN PLUS and ILSAC GF-5 specification. It provides excellent anti-wear performance and fuel efficiency under severe operating conditions.

Wear Protection



Average value of cam wear after the Sequence IVA test is much lower than pass criterion of API SN PLUS specification. The test result means that Kixx G1 improves durability of engine elements under severe operating conditions.

Anti-Degradation



Viscosity increase of Kixx G1 after the Sequence IIIG test is much lower than pass criterion of API SN PLUS specification. In general, oil viscosity increases with the increase in level of oxidation. The test result means that Kixx G1 can show good anti-wear performance and fuel efficiency by the suppression of its degradation based on excellent anti-oxidation stability.

Fully / Semi Synthetic



Kixx G1

High grade gasoline engine oil providing excellent protection

- 5W-20 / 5W-30 / 10W-30 : API SN PLUS-RC, ILSAC GF-5
- 5W-40 / 5W-50 / 10W-40 / 20W-50 : API SN PLUS

DESCRIPTION

Kixx G1 is formulated from VHVI base oils, high performance additive systems and leading edge viscosity index improver, which meet the requirement of current advanced top-tier engine oil grade of API SN PLUS. It is optimized to provide complete engine oil performance, especially fuel efficiency, through friction reduction and enhanced durability. In addition, it also minimizes abrupt damage of key engine components (such as piston rings, connecting rods and so on) by prevention of LSPI (Low Speed Pre-Ignition) phenomena in T-GDI engines.

APPLICATIONS

- All gasoline fueled vehicles
- High performance cars equipped with T-GDI, GDI, DOHC, EFI and VVT
- Four-stroke gasoline engines in motorcycles
- Sports vehicles

PERFORMANCE STANDARDS

- 5W-20 / 5W-30 / 10W-30 : API SN PLUS-RC, ILSAC GF-5
- 5W-40 / 5W-50 / 10W-40 / 20W-50 : API SN PLUS

CUSTOMER BENEFITS

Enhanced Fuel Economy

The wide temperature range capability of the VHVI and HVI base oils ensures correct oil viscosity which reduces friction at start-up, and provides maximum lubrication under high temperature operating condition.

Improved Engine Power and Maintainability

A reduction in the piston blow-by gas coupled with the oil's anti-sludge

characteristics helps to maintain engine power and cleanliness, which in turn extends the engine's service life.

Extended Oil Drainage Interval

Excellent oxidation resistance and low volatility will extend oil drainage interval.

Wear Resistance under Wide Temperature Condition

Advanced non-conventional base oil formula coupled with high performance additive systems and leading edge viscosity index improver delivers excellent shear stability and maximum wear protection under high speed, and high temperature driving conditions as well as a rapid, highly effective oil film generation. It also minimizes wear of key engine components during engine start under very low temperature.

LSPI Prevention

Advanced additives technology efficiently suppresses LSPI phenomena that occasionally occur in combustion chambers of T-GDI engines.

KEY PROPERTIES

	Fully Synthetic	Fully Synthetic	Fully Synthetic	Fully Synthetic	Semi Synthetic	Semi Synthetic	Semi Synthetic
SAE Viscosity	5W-20	5W-30	5W-40	5W-50	10W-30	10W-40	20W-50
Density, kg/L @15°C	0.852	0.851	0.851	0.851	0.864	0.863	0.875
Kinematic Viscosity, mm ² /s @ 40°C	51.9	66.0	90.6	117.7	72.2	98.1	170.1
Kinematic Viscosity, mm ² /s @ 100°C	8.7	10.9	14.5	18.3	10.9	14.6	19.2
Viscosity Index	145	157	166	174	141	154	129
Pour Point, °C	-42	-43	-42	-43	-38	-39	-32
Flash Point, COC, °C	224	230	224	224	222	226	244
Package (Liters)	4, 200	1,3,4,4T,5,18,200	1,3,4,4T,5,200	1,4T, 200	1,4T,18,200	1,3,4,4T,5,200	1,3,4,5,200

* Kixx G1 20W-50 is also applicable to CNG/LPG engines

Kixx G1 – Field Test

	Oil Sump Sludge	Bearing Wear	Piston Deposit
Kixx G1			
API SM			