



API SN
ILSAC GF-5
2~5% improvement
in fuel efficiency!

ENEOS Fully Synthetic 0W-20

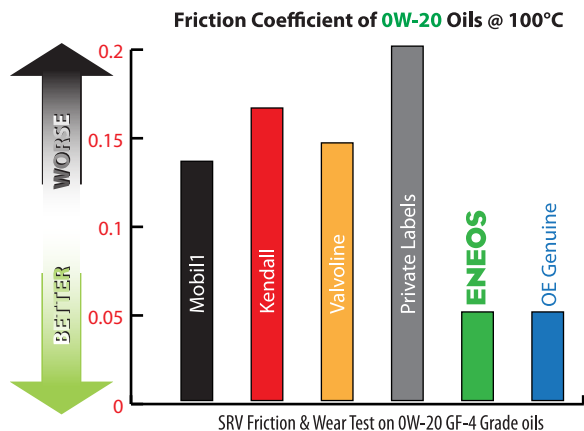
ENEOS MOTOR OIL
Technology That Moves You



www.eneos.us

•BEST FRICTION COEFFICIENT•

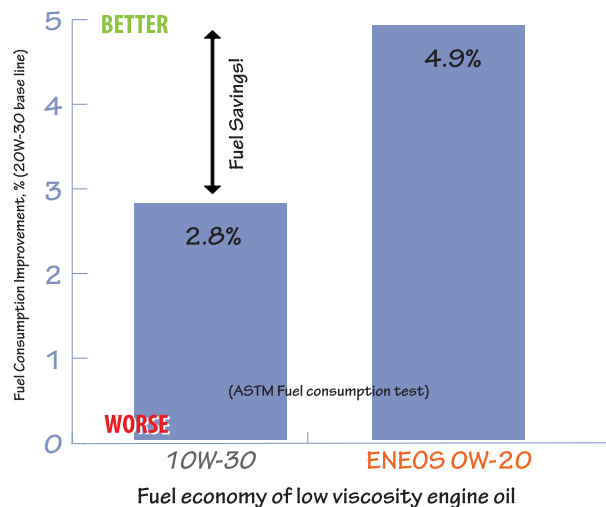
Lower friction coefficient translates into reduced wear & damage on engine components as well as better fuel economy.



•MAXIMIZES FUEL ECONOMY•

ENEOS 0W-20 is designed to deliver the ultimate in fuel saving performance.

Blended with unconventionally high VI (Viscosity-Index) base oil and organic molybdenum, ENEOS 0W-20 provides excellent fuel economy and environmental protection.



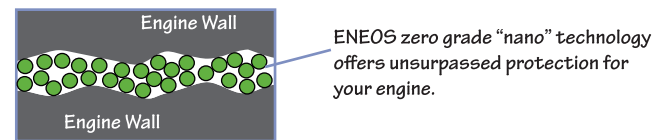
ENEOS 0W-20 exceeds all manufacturer's requirements for vehicles recommending 5W-20 & 0W-20

•COLD START PERFORMANCE•

Conventional oils formulated with high viscosity index base oils achieve high temperature protection, but fall short for cold flow performance.

ENEOS 0W-20 uses Nippon Oil's proprietary lubricant technology, protecting your engine over the entire performance range of your vehicle, from cold starting to high temperature, high loading.

Trusted by automotive manufacturers around the world, 0W-20 motor oils are used increasingly for new vehicles as factory fill.



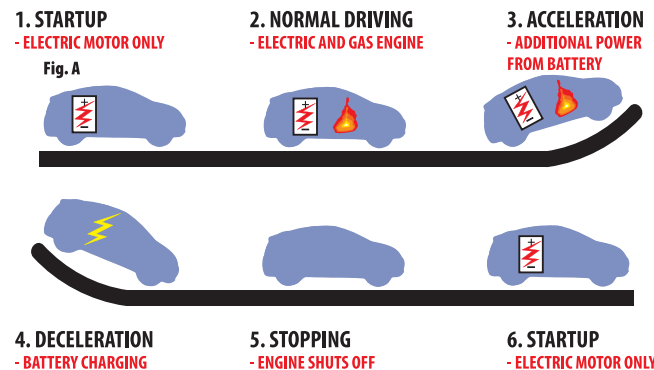
HYBRID VEHICLES:

0W-20's low viscosity is essential to Toyota's innovative "Hybrid Synergy Drive" (AKA HSD).

HSD calls for alternating between the gasoline engine and the electric motor during different driving loads. (See fig. A)

Due to the constant on/off action of the engine, thicker oil will not be able to warm up properly. This could lead to unnecessary damage and wear.

Thicker oil will also result in reduced fuel mileage on the hybrid vehicle. (See fig. A)



TOYOTA'S HYBRID SYNERGY DRIVE

STARTING. The HSD utilizes the battery and electric motor when accelerating from a dead stop. The gasoline engine seamlessly switches on at about 40 mph allowing both engine and motor to operate within a narrow RPM range where each is most efficient.

NORMAL DRIVING. When the vehicle reaches cruising speed, the engine is started to drive the wheels and the generator. The generator supplies electricity to charge the battery and power the electric motor as needed.

ACCELERATION. When additional power is required for hard acceleration or hill climbing, the battery and generator provide additional power for the engine.

DECELERATION. During braking or coasting, both the engine and motor are shut off and the energy is recovered through regenerative braking to recharge the battery.

STOPPING. When the vehicle comes to a stop, the engine is shut off to conserve fuel, then restarted when the car is in motion.

The engine will be stopping and starting many times, so Toyota's HSD is designed to address cold start emissions. The HSD system stores hot coolant in a three liter bottle that dumps into the engine during a cold start. However, this process must work in conjunction with a fluid motor oil to optimize operation.

HONDA INTEGRATED MOTOR ASSIST HYBRIDS

Honda Civic Hybrid and Insight have very tight bearing clearances (.0095 inches, about half the clearance of most engines.). It is important to use the correct viscosity motor oil to insure proper oil flow between the bearing and the journal during cold start. Using the wrong viscosity oil can reduce fuel economy, and may cause damage to the engine.

Fully Synthetic 0W-20 Motor Oil is the oil of the future, but available today to the energy conserving, environmentally conscious consumer.

JX Nippon Oil & Energy's obsession with quality and continuous improvement is the reason it is the OE Lubricant supplier of choice for Japanese auto makers, and the reason for the superior quality of ENEOS MOTOR OIL.

For further information on ENEOS products, refer to the data sheet or MSDS.
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