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AMSOIL Hybrid Motor Oil Protects Hybrid Vehicle Engines



by **DAVID HILGENDORF**
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Hybrid vehicles are designed to improve fuel efficiency and reduce emissions. They combine an internal combustion engine powered by traditional fuels with an electric motor powered by batteries. The electric motor is used to propel the vehicle from stops and for low-speed driving and the gasoline engine takes over powering the vehicle at higher speed and recharges the batteries.

Hybrids are projected to be 18% of cars on the road by 2035 and roughly half of all hybrid owners identify themselves as automotive enthusiasts. These are drivers searching for modern technology and premium



Hybrid challenges

Hybrid vehicles endure a unique set of challenges due to frequent starting and stopping of the engine. Intermittent operation of combustion engines makes them especially vulnerable to corrosion.

The infrequent use and reduced load also lead to lower engine temperatures that cannot evaporate condensation inside the engine, which can cause rust, increase wear and decrease efficiency. Cooler cylinders can also cause incomplete combustion, increasing the likelihood of unburnt fuel leaking into the crankcase and contaminating the motor oil.

Additionally, motor oil needs to flow quickly to critical components every time the engine engages, which is problematic when the engine is constantly cold due to being idle. Hybrid engines are also required to engage quickly under high-load operation to assist the electric motor and must be able to rapidly reach increased engine speeds.

Hybrid engines require high-quality oil that resists moisture, flows properly before it reaches operating temperatures and resists oxidation once it heats up.



Hybrid solution

AMSOIL 100% Synthetic Hybrid Motor Oil is specifically engineered to address the unique demands of hybrid electric (HEV) and plug-in hybrid electric (PHEV) engines, with a boosted dose of dispersants and inhibitors to help prevent condensation-related corrosion and maintain optimal engine performance. Its



service intervals of 15,000 miles or 1 year in normal service. It is a premium upgrade over vehicle manufacturer-branded motor oils, delivering purpose-built protection that extends oil drain intervals and maximizes hybrid performance, fuel economy and engine life. Follow the owner's manual recommendation for severe service intervals.

AMSOIL 100% Synthetic Hybrid Motor Oil is tailored to the unique challenges presented by hybrid vehicles, making it an excellent choice for hybrid owners looking for an upgrade in hybrid engine protection.

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by **DAVID HILGENDORF**

AMSOIL Technical Writer and 20-year veteran of the motorcycle industry. Enjoys tearing things apart to figure out how they work. If it can't be repaired, it's not worth owning.

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