

February 24, 2026

Dear Valued Customer,

ClearSky is confident that you will enjoy an improvement in engine performance, reduced fuel costs and lower environmental impact when using fuel treated with ClearSky Complete Fuel Treatment. ClearSky Complete is unique in its ability to impact fuel performance and in the way it accomplishes this.

Internal combustion engines, both diesel and gasoline engines, rely on fuel injection for effective operation. The fuel injection process converts the liquid fuel into a fine mist or spray of tiny fuel droplets in a process called atomization. ClearSky Complete functions by greatly improving this atomization process.

There are several competing technologies that attempt to improve atomization. Much attention in recent years has focused on the design of the fuel injector nozzles to improve the mechanical break down of the fuel droplets. Flow modulators emplaced into the fuel lines are a similar approach. Both technologies have been somewhat successful in improving atomization but they are somewhat limited in their effectiveness and, as engine modifications, come with disadvantages.

Hybrid diesel and hydrogen technologies have attempted to do the same by introducing hydrogen into either the air or fuel injected into the engine cylinder. Hydrogen is highly volatile and creates an uncontrolled explosion during the engine's power stroke. Although this explosion contributes to engine power and atomization, it is hard on the engine as it disrupts the normal timing of the engine and increases engine operating temperature.

Some fuel additives attempt to do the same thing with "cetane boosters". These additives contain a volatile chemical (normally a hydrocarbon) which creates an uncontrolled explosion during the engine's power cycle. Although the engine benefits from the increased power from the fuel additive, as for hydrogen, this explosion disrupts the engine timing and increases the engine operating temperature.

Additionally, fuel additives with cetane boosters change the chemistry of the fuel, often putting the fuel out of regulatory specification. The use of off-spec fuel can void engine and vehicle warranties. Although cetane boosting additives can modestly improve fuel economy, the additive to fuel dilution ratio generally needs to be high enough to create an observable reduction in per kilometre fuel consumption, rendering them marginally economic to use.

ClearSky Complete is different. It contains emulsifying chemistry that creates a molecular bond between the fuel droplets and moisture present in the fuel. It also contains glycol ether which bonds with the fuel in a similar manner. This emulsification is unique in that it becomes pervasive throughout the fuel tank and in that the fuel droplets injected into the engine are micro emulsified, with nearly every fuel droplet containing a mix of fuel, water and glycol.

As this emulsified fuel is injected into the engine the micro emulsified water and glycol immediately evaporate to steam. The resulting gas expansion of this steam gently blasts apart the fuel droplets into very tiny micro droplets. This secondary atomization of the injected fuel increases the net surface area of the fuel and the exposure to oxygen, resulting in a more complete combustion of the fuel. The result is more engine power, better fuel economy and a reduction in greenhouse gas and harmful particulate emissions.

Additionally, the endothermic nature of evaporation provides a cooling effect on the engine, and vehicles using ClearSky Complete tend to have lower engine and exhaust temperatures.

While a few competing additives with cetane boosters can produce a secondary atomization effect, specifically those containing peroxides and alkyl nitrates, they are less effective than that from ClearSky complete, particularly at weaker dilution ratios comparable to that of ClearSky complete.

There is a great diversity of fuel additives on the market. Fuel additives are designed for a variety of functions including de-icing, anti-gel, anti-bacterial, detergent cleaning, lubrication, water-fuel stabilization, and cetane boosting. Many fuel additives include a mixture of chemistry that provide several of these functions.

ClearSky Complete also contains lubricants that substantially improve engine lubricity and detergents that help remove carbon buildup on metal engine surfaces. The glycol acts as a very effective de-icing agent to improve cold weather performance. The emulsification stabilizes the gasoline or diesel fuel and prevents bacterial degradation, enabling longer term storage while preventing the development of a corrosive free water layer in the fuel tank.

The primary advantage of ClearSky Complete however is the emulsifying chemistry that uniquely creates an effective secondary atomization of the fuel to improve fuel consumption rate, while also reducing greenhouse gas and particulate emissions, and while preventing carbon buildup and lowering engine operating temperature. A large body of engine test data confirms its effectiveness, which we are confident is unique among fuel treatments.



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