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“Waterless” Coolant Extends Engine Life, Saves Fuel

Forget about overheating your cooling systems if you use Evans waterless coolant. With a boiling point of 375 degrees and a freezing point of -40 degrees, your engine operates more efficiently and reduces the cooling load on radiator and fan, says Mark Stone of Evans Cooling Systems, Inc.

“Water based coolants run at or near their boiling point, while Evans waterless coolants, due to their high boiling point, have reserve capacity to cool the engine even on the hottest day of the year “ says Stone. “Cooling system pressure is lowered substantially with the use of a waterless coolant. Stress on the seals, gaskets and hoses are reduced and the life of the cooling system components is extended.”

Stone points out that thousands of animals are killed each year due to ethylene glycol in antifreeze and hundreds of children end up in hospital as the result of ingesting toxic antifreeze. Evans is a safer alternative for children and for pets.

He adds that water-based cooling systems also contribute to pump and cylinder liner cavitation and corrosion, as well as hot spots that can damage engines. Severe liner cavitation alone can require an engine rebuild which can be very costly. When Southwest Research Institute (SWRI) tested Evans waterless coolant in the John Deere Cavitation Test, along with multiple water based coolants, the results were impressive. The John Deere Cavitation Test, a 250 hour dynamometer test, is highly predictive of real-world cavitation erosion of cylinder liners. When Evans HDTC was tested, it proved superior to all other formulations and 75% better than the previously best water based coolant.

He points out that a high boiling point can be important in heavy duty equipment running in dusty, dirty conditions. “Field conditions can clog a radiator which can reduce the air flow and cause a water-based cooling system to overheat” says Stone. With waterless coolant the radiator can be cleaned out less frequently which can reduce maintenance downtime and associated cost.

Waterless coolants can safely operate at higher temperatures when compared to water-based coolants which enable the operator the opportunity to increase engine efficiencies. Independent evaluations on heavy duty trucks have shown fuel savings of as much as 8 percent due to reduced fan on time. When the fan on temperature is elevated it reduces the overall fan operation time by upwards of 50% because the fan consumes a lot of energy when it is operating. Anytime you can keep the fan off there is a considerable amount of fuel that can be saved.

Evans offers a Heavy Duty Coolant (HDTC), a formulation with special additives for heavy duty diesel engines. It is recommended for large tractor, combines and heavy trucks. It is currently priced at \$42.95/gallon. High Performance Coolant (formerly NPG+) is designed for diesel and gas engines, such as cars, pickups and smaller tractors. It's priced at \$39.95 per gallon.

“While the price for our waterless coolant may seem high at first, it quickly pays for itself in reduced engine wear and fuel saved”, says Stone. “Plus, it’s a lifetime coolant, if it doesn’t become contaminated with water. Future replacement and disposal costs are eliminated. The coolant additives remain stable and in suspension during storage as well as use. Periodic supplemental additives are not required. It becomes the least expensive coolant you will ever buy, because it’s the last coolant you’ll ever need”.

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