

Real World Results

Field Tests of Decalin Diesel Fuel Additive

1. An over-the-road truck fitted with a 2006 Cummins ISX diesel (530 hp) was subjected to an independent Controlled Field trial. These results were data-logged daily.

First, data was collected for a four week period prior to the additive Decalin Diesel being used. This data showed a controlled and data-logged consumption of 1,190.5 gallons of diesel. The engine run hours, miles and date were recorded.

Then; during the month immediately following that test, a measured and metered consumption of 722.6 gallons of diesel fuel was recorded and the additive described was added at a measured rate of one fluid ounce per five gallons of diesel fuel. This demonstrated an improvement of 7.0% in mpg in diesel fuel usage.

The operator reported smoother running and no accumulation of particulate matter in the particulate filter, beyond that which was normal. Summer blend of California diesel fuel was used.

The truck was hauling crushed rock from a quarry to a building site every day, doing the same work hauling the same load each time.

The cetane value of the fuel was measured with and without the additive by an independent laboratory and was shown to be 49.0, +/-0.3. This shows that the improvement in fuel consumption was related to increased combustion efficiency. Additives which increase cetane value (alkyl nitrates) are dangerous to handle and require HAZMAT shipping and handling. Decalin Diesel can be safely shipped by UPS or FedEx without HAZMAT charges.

2. In a Field Test, unmonitored by an independent observer, a Dodge diesel F250 5.9 liter resulted in a fuel usage reduction from 21.5 to 24.0 mpg (11.6%).
3. This Field Test was unmonitored by an independent observer but logged by the operator. In July of 2013, over a distance of 280 miles, 21.0 gallons of fuel was added and no additive, giving 13.3 mpg. The operator then added Decalin Diesel at the prescribed rate to the fuel at a subsequent fill-up and the fuel consumption improved to 15.3 mpg, a 15.0% improvement.