

DIESEL FUEL ANALYSIS - OVERVIEW

In July and August, 2011, CAD Railways Industries had comprehensive fuel analysis tests performed on standard #2 diesel fuel with and without ECO-FUEL SAVER Fuel Reformulator. Twenty four (24) individual certified tests (see PDF files in this section) were performed to analyze 18 different properties of diesel fuel with and without ECO-FUEL SAVER. These fuel tests were performed by two separate testing companies – ESDC (A Division of CAD Railways) and The OTI Canada Group.

CAD Railways is an independent locomotive and railway testing facility located in Montreal, Quebec, Canada. This facility is used by all North American railroad companies to test new technologies in fuel efficiency, emissions reductions, aerodynamics, engine lubricants and fluids, as well as to retrofit and recertify locomotives and rail cars. The fuel tests performed for and by CAD Railways on ECO-FUEL SAVER are ASE, ASTM, CARB, EPA, and Canadian EPA certified.

The conclusion to these comprehensive tests was that ECO-FUEL SAVER did not substantially alter the liquid, chemical properties of diesel fuel and was found safe to be used in all diesel engines. Siamak Moshiri, Project Leader and Emission Test Engineer for CAD Railways said; “The railroad is concerned more with the quality of the fuel than even the efficiency of the fuel as fuel quality directly impacts engine longevity for locomotives”.

ECO-FUEL SAVER DOES NOT negatively alter the fuel in its liquid state. In fact, as the test results show, it improves the fuel quality, especially in reduced particle size and conductivity (static). ECOFUEL SAVER enhanced fuel also offers more lubricity over standard #2 diesel fuel. Therefore, there are NO WARRANTY ISSUES when ECO-FUEL SAVER is used in diesel fuel. Nor are there issues or worries with fuel tanks, fuel lines, injectors, injector pumps, or the engine itself.

ECO-FUEL SAVER simply helps facilitate more complete combustion of the fuel in the combustion chamber itself. Under the tremendous temperatures and pressures in the combustion chamber, ECOFUEL SAVER's reduced co-efficient of friction allows for a better and more complete atomization of the fuel.

Simply put, ECO-FUEL SAVER helps the fuel – with the aid of the engine – do what it was designed to do; allows the fuel to combust more completely, through a series of rapid chemical reactions that turns potential liquid chemical energy into mechanical energy. In most applications, this results in a significant improvement in fuel efficiency and dramatically reduced engine emissions when ECOFUEL SAVER is mixed in with the fuel.

Alexander Pope wrote in *An Essay On Criticism*; “Be not the first by whom the the new are tried, nor yet the last to lay the old aside.” Thousands of individuals and companies are currently using ECOFUEL SAVER with fabulous results, so the railroad companies certainly would not be the first to try it. However, the railroad is one of the largest fuel users in the world, and they have very stringent testing and certification guidelines, second only to the aviation industry. After thoroughly testing of ECOFUELSAVER the railroad has determined that ECO-FUEL SAVER is safe to use in locomotive engines and that ECO-FUEL SAVER actually enhances diesel fuel.