

Date: Thu, 17 Jul 2003
To: Daniel A. Papcke
From: Todd A Strawser
Subject: Status Update on P2 Projects

Conversion to Biodiesel

During a 9-month pilot program using 1 vehicle at different Diesel to Biodiesel percentages we decided that we were ready to expand the fuels use. By this time all of our facility users felt comfortable with their B20 compatibility concerns. Our experiences and results during this pilot program were very similar to the other government studies using the B20 fuel.

One of my biggest concerns was using B20 in Northeast Ohio winter weather. By the end of January, we had experienced the winter's coldest weather conditions with no cold weather related problems such as fuel line freeze up.

We had our first 7500 gallon delivery on January 28, 2003. From this point on we expanded the B20 use to all Diesel vehicles and stationary Diesel Fuel storage tanks. All equipment using these tanks (such as electrical generators) began using the B20.

Our second 7500 gallon delivery was on March 20, 2003.
Our third 7500 gallon delivery was on June 2, 2003.

We were expecting to change fuel filters because the B20 acts like a solvent. All sludge, dirt etc. end up clogging the fuel filters on the vehicles and equipment.

We are prepared but, so far we have only needed to change fuel filters on 3 vehicles, due to restricted flow.

We expect the fourth 7500 gallon delivery in early August.