

RENTAR

Environmental Solutions, Inc.

Manufacturer of the Rentar Fuel Catalyst

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FOR IMMEDIATE RELEASE: Virginia Tech University publishes study for the State of Delaware comparing number 2 diesel fuel, Bio-Diesel (20-80) fuel and the effects the Rentar Fuel Catalyst had on both fuels.

Bio-diesel offers many positive benefits except it usually costs more because of the special blending and it produces increased NOx emissions. The Rentar Fuel Catalyst offsets both of these possible negatives.

The State of Delaware retained Virginia Tech University to study the performance of number 2 diesel fuel compared to number 2 diesel fuel used with a Rentar Fuel Catalyst and how number 2 diesel fuel compares to Bio-diesel (20-80) and Bio-diesel used with a Rentar Fuel Catalyst.

The study, conducted at the Everett Meredith Middle School, was paid for by the Delaware Department of Agriculture, the Delaware Soybean Board, the Delaware Department of Natural Resources, Environmental Control (DNREC) and the Appoquinimink School District.

RESULTS - Fuel Consumption (exact quotes from report - see Page 7)

- "The Rentar Catalyst DECREASED the number 2 fuel oil use by 7.6 PERCENT with greater than 99% confidence."
- "The Rentar Catalyst DECREASED the B20 (Bio-diesel 20-80) use by 5.7 PERCENT with greater than 99% confidence;

RESULTS - NOx (Nitrogen Oxides) (exact quotes from report - see Page 8)

- Using number 2 diesel fuel as a baseline and number 2 diesel fuel with a Rentar Fuel Catalyst installed the following result was published: "The NOx concentration showed a REDUCTION OF 13 PERCENT using the Rentar Fuel Catalyst."
- As expected, the use of Bio-diesel increase NOx. The use of the Rentar Fuel Catalyst reduced that increase. (exact quotes from report - see Page 10 paragraph 6.3.2.2) " The emissions of NOx of B20 INCREASED 10% over number 2 oil and INCREASED only 7% with B20 using the Rentar Fuel Catalyst A REDUCTION OF 3% was achieved.



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OTHER RESULTS - Change in Emissions When Firing Number 2 oil with and without the Rentar Catalyst. (See page 8 and 9)

- | | |
|-------------------------------------|-------------------------|
| • NO _x (Nitrogen Oxides) | REDUCTION OF 13 PERCENT |
| • CO ₂ (Carbon Dioxide) | REDUCTION OF 9 PERCENT |
| • CO (Carbon Monoxide) | REDUCTION OF 4 PERCENT |
| • SO ₂ (Sulfur Dioxide) | REDUCTION OF 21 PERCENT |
| • THC (Total Hydrocarbons) | REDUCTION OF 13 PERCENT |

The study was called the EFFECT OF RENTAR FUEL CATALYST ON EMISSIONS AND EFFICIENCY FROM A COMMERCIAL BOILER USING NUMBER 2 OIL AND B-20 SOYBEAN BLEND.

The Report was prepared by :
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