

DOCUMENT 3



13-MODE STEADY-STATE EXHAUSE EMISSION AND FUEL CONSUMPTION VERIFICATION TESTING OF THE RENTAR IN-LINE FUEL CATALYST

ETS, a Division of Olson Engineering

EPA and CARB recognized Engine Emissions Laboratory
Over the Road Truck Engine Tested Off Chassis in Laboratory Cell
Cummins 855-14L

Results:

- 6.0% Fuel Consumption Improvement
- 19.2% NOx Improvement
- 20.0% Particulate Matter (PM) Improvement
- 9.0% Carbon Monoxide Improvement
- 6.0% CO2 Improvement by Carbon Balance Assumption

DOCUMENT 4



EMISSIONS AND FUEL CONSUMPTION TESTING OF THE RENTAR IN-LINE FUEL CATALYST AFTER 100 HOURS OF CHASSIS DYNAMOMETER OPERATION

Olson-ECologic Engine Testing Laboratories, LLC

EPA and CARB Recognized Engine Emission Laboratory
Conducted on Cummins Model N-14 Diesel Engine Powered Peterbuilt Tractor

Results:

UDDS-HD Test Results ("city driving")

- 7.3% Fuel Consumption Improvement
- 6.1% Particulate Matter (PM) Improvement
- 6.9% CO2 Improvement
- 14.4% NOx Improvement
- 0.4% Carbon Monoxide Improvement

NEW YORK CITY BUS CYCLE Test Results

- 10.3% Fuel Consumption Improvement
- 3.4% Particulate Matter (PM) Improvement
- 10.0% CO2 Improvement
- 20.6% NOx Improvement
- 4.6% Carbon Monoxide Improvement

STEADY STATE OPERATION - 50 MPH ("highway driving")

- 5.7% Fuel Consumption Improvement
- 9.4% Particulate Matter (PM) Improvement
- 5.7% CO2 Improvement
- 15.9% NOx Improvement
- 0.6% Carbon Monoxide Improvement

DOCUMENT 5



EFFECT OF RENTAR FUEL CATALYST ON EMISSIONS AND EFFICIENCY COMMERCIAL BOILER FIRING NUMBER 2 HEATING OIL

Virginia Polytechnic Institute / Alexandria Research Institute – Virginia Tech University

Commercial Boiler Firing Number 2 Heating Oil
Furnace Located At the Everett Meredith Middle School
Delaware Study Paid for by the State of Delaware

Results:

- 7.6% Fuel Consumption Improvement
- 13.0% NOx Improvement
- 4.0% Carbon Monoxide Improvement
- 13% Total Hydrocarbons
- 7.6% CO2 Improvement by Carbon Balance Assumption