

November 14-16, 2012

Emissions and Consumption Testing Summary – Conducted by Stage 2 Innovations Farmington Hills, Michigan

Unit: 2007 Cat Model XQ60-4 Genset

Testing done at a constant 75% power rating.

Fuel: Ultra Low Sulfur Diesel

<u>Parameter</u>	<u>O2 (%)</u>	<u>CO2 (%)</u>	<u>NoX (ppm)</u>	<u>Fuel Consumption (Gal/HR)</u>
Baseline Averages	11.37	7.105	594.3	3.7633
15% Water Emulsion	11.55 (+1.58%)	7.00 (-1.48%)	481.5 (-18.98%)	3.69 (-1.95%)
20% Water Emulsion	11.725 (+3.12%)	6.85 (-3.59%)	481 (-19.06%)	3.66 (-2.75%)
25% Water Emulsion	11.55 (+1.58%)	7.0 (-1.48%)	384.5 (-35.30%)	3.63 (-3.54%)
30% Water Emulsion	11.55 (+1.58%)	7.0 (-1.48%)	368 (-38.08%)	3.53 (-6.20%)

Bacharach True Spot Smoke Test Results - (The Bacharach True Spot Smoke Test Kit determines efficient combustion and is internationally recognized as the standard for evaluating smoke density in the flue gases from distillate fuels).



Ultra-Low Sulfur Diesel



25% Water in Fuel Emulsion

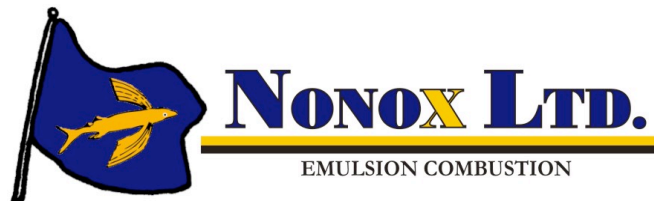


30% Water in Fuel Emulsion

25% water emulsion resulted in a 57.1% decrease in smoke, while a 30% water emulsion resulted in a 72% decrease in smoke.

FOR MORE INFORMATION

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