



NEWS 12 (NJ)

Emissions Test Data

Bloomfield, NJ – Broadcast aired September 8 and 9, 2008

News 12 broadcast a story about the **Vortex Fuel Saver**. As is standard in TV reporting, there is not enough time to present the entire story. Unfortunately, the emissions testing performed on the News 12 vehicle, by Quality Auto Centers (www.qualityauto.com), a chain of New Jersey (NJ) auto repair and certified NJ emissions testing centers was barely mentioned in the story.

So here is the rest of the story. The News 12 vehicle, a 2005 Chevrolet Equinox LS, 3.4 liter engine, which started the demonstration with 37,373 miles on it was tested at Idle and at 2500 RPM. The most significant items to consider are the HC (Hydrocarbons) and NO(x) (Oxides of Nitrogen).

The HC is significant since it is basically unburned fuel. Reducing HC in tailpipe emissions with a pre-combustion device, such as the **Vortex Fuel Saver**, means there has been a more complete combustion of the fuel. As a basic law of physics, or Mechanics 101, more complete combustion must result in increased Miles per Gallon (MPG) and/or increased horsepower. The **Vortex Fuel Saver** does both.

The NOx is significant since it is 320 times worse than CO2, molecule for molecule, in regards to global warming potential.

As the attached, actual emissions tests show, the HC **was reduced from 63.4% to 93.9%** and the **NOx was reduced from 76.4% to 99%***. Since NOx went to 0, one could argue it was reduced 100%, however, we assume that some NOx was actually coming out that was just too insignificant to measure.

At Idle	HC	Percentage Reduction	NOx	Percentage Reduction
Before	364		34	
Immediately After	31	91.4%	2	94.1%
Two Months Later	22	93.9%	8	76.4%
At 2500 RPM				
Before	41		14	
Immediately After	15	63.4%	3	78.5%
Two Months Later	14	65.8%	0	99.0%*

**NEWS 12 Emissions Tests at Idle
2005 Chevrolet Equinox LS, 3.4 liter engine
Before, immediately after installation, and two months later**

Manual Readings Mode

Facility Number. : PIF011954
Analyzer Number. : ES999114

Date : 18-Jun-2008
Time : 11:54:59

Gas		Reading	Limit
HC	ppm:	364	
CO	%:	0.43	
CO2	%:	13.6	
O2	%:	0.9	
NO (x)	ppm:	34	

P.E.F : 0.467

Manual Readings Mode

Facility Number. : PIF011954
Analyzer Number. : ES999114

Date : 18-Jun-2008
Time : 12:39:52

Gas		Reading	Limit
HC	ppm:	31	
CO	%:	0.02	
CO2	%:	14.6	
O2	%:	0.0	
NO (x)	ppm:	2	

P.E.F : 0.467

Manual Readings Mode

Facility Number. : PIF011954
Analyzer Number. : ES999114

Date : 27-Aug-2008
Time : 10 :27 :38

Gas		Reading	Limit
HC	ppm:	22	
CO	% :	0.00	
CO2	% :	15.0	
O2	% :	0.1	
NO(x)	ppm:	8	

P.E.F : 0.467

**NEWS 12 Emissions Tests at 2500 RPM
2005 Chevrolet Equinox LS, 3.4 liter engine
Before, immediately after installation, and two months later**

Manual Readings Mode

Facility Number. : PIF011954
Analyzer Number. : ES999114

Date : 18-Jun-2008
Time : 11:56:00

Gas		Reading	Limit
HC	ppm:	41	
CO	%:	0.01	
CO2	% :	14.6	
O2	%:	0.0	
NO (x)	ppm:	14	

P.E.F : 0.467

Manual Readings Mode

Facility Number. : PIF011954
Analyzer Number. : ES999114

Date : 18-Jun-2008
Time : 12:40:17

Gas		Reading	Limit
HC	ppm:	15	
CO	%:	0.01	
CO2	%:	14.6	
O2	%:	0.0	
NO (x)	ppm:	3	

P.E.F : 0.467

Manual Readings Mode

Facility Number. : PIF011954
Analyzer Number. : ES999114

Date : 27-Aug-2008
Time : 10:29:24

Gas		Reading	Limit
HC	ppm:	14	
CO	% :	0.01	
CO2	% :	0.00	
O2	% :	15.1	
NO (x)	ppm :	0	

P.E.F : 0.467