

Ethos Environmental, Inc.

REDUCTION IN EMISSIONS RESULTS IN FUEL MILEAGE INCREASE

Ethos Environmental's fuel reformulating products reduce emissions by burning fuel more completely, which improves fuel mileage. Exhaust is essentially unburned fuel, wasted fuel, so when the fuel is used more completely the engine delivers better mileage from every tank. Efficient fuel use also means improved engine performance because a more complete combustion process obtains increased power from each engine revolution.

In the last decade hundreds of millions of miles in road tests have been conducted. Test after test, *Ethos FR* products have proven to reduce engine exhaust emissions by 30% and more, including measurable reductions in the emissions of hydrocarbons (HC), nitrogen oxides (NO_x), carbon monoxide (CO), and sooty exhaust or particulate matter (PM). All of these emissions are highly toxic and as a result, fuel mileage increases have been significant, ranging from 7% to 19% fleet wide.

Ethos Environmental uses an opacity meter, a detection device for diesel vehicles that measures the percentage of opacity (light obstructed from passage through an exhaust smoke plume), to demonstrate dramatic reductions in emissions. In more that 1,000 heavy-duty diesel vehicles treated (a motor vehicle having a manufacturer's maximum gross vehicle weight rating (GVWR) greater than 6,000 pounds), emissions were lowered by as much as 90%. The Society of Automotive Engineers (SAE) recommended practice SAE J1667 "Snap Acceleration Smoke Test Procedure" to be used for heavy-duty diesel powered vehicles. Attached are samples of opacity test sheets, taken from diesel-powered engines, demonstrating the positive results after using *Ethos FR*.

| Engine Type | Year | Miles Traveled For Test | Opacity Prior to Ethos | Opacity after Ethos | % Reduction Opacity | Historical Miles/Gallon | Miles/Gallon With Ethos | % Increase Miles/Gallon |
|----------------|------|-------------------------|------------------------|---------------------|---------------------|-------------------------|-------------------------|-------------------------|
| CAT | 99 | 2,204 | 50.8 | 29.20 | 43.0 | 4.85 | 6.93 | 43.0 |
| CAT | 98 | 1,868 | 4.00 | 1.50 | 63.0 | 5.73 | 8.77 | 53.0 |
| Detroit Diesel | 88 | 186 | 46.40 | 23.30 | 50.0 | 6.00 | 8.50 | 42.0 |
| Detroit Diesel | 84 | 212 | 12.10 | 1.20 | 91.0 | 6.40 | 10.10 | 58.0 |
| CAT | 97 | 206 | 20.80 | 7.80 | 63.0 | 3.00 | 5.70 | 90.0 |
| GM6 9 | 99 | 205 | 4.70 | .20 | 96.0 | 11.30 | 15.70 | 39.0 |