



**WITH COMBUSTION CATALYST**

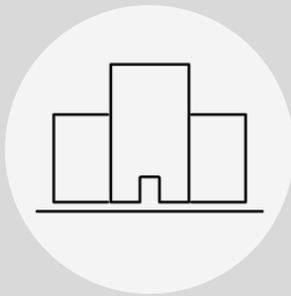
**WORLD'S BEST FUEL  
ADDITIVES. PERIOD.**

- COMPANY OVERVIEW •
- PRODUCT INFORMATION •
- VALUE PROPOSITION •



"The most dangerous phrase in the language is 'We've always done it this way!'"

---Rear Admiral Grace Murray Hopper, pioneer of computer science and  
developer of COBOL, one of the base languages of all computer programming



## Fuel Ox™ Background and Beginnings

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Fuel Ox™ with Combustion Catalyst additive was originally developed for ultra high intensity applications which included use by the United States Department of Defense. It was designed to stabilize large quantities of fuel including diesel, heavy fuel oil, and gasoline. It also had to be extremely concentrated, improve the efficiency of the fuel, and increase the longevity of engine components in very harsh climates. Fuel Ox™'s highly concentrated formula allows for easy dosing and a small inventory.

## THE GRASS ROOTS APPROACH

In 2014, Fuel Ox, LLC began marketing this uniquely powerful line of additives. From these humble beginnings President Rand Taylor and his son Alec started by reaching out to local construction and trucking companies, farmers, municipalities, and independent operators. They proceeded to build a strong base of loyal customers by providing them the strongest fuel additive on the planet combined with excellent customer service, attention to detail, and the prompt fulfillment of custom orders. Since then Fuel Ox™ has grown to become an established and respected company whose products are utilized by many corporate leaders across a broad range of industries and is now utilized on 6 continents.



## WHAT MAKES FUEL OX™ UNIQUE?

# 01

### PATENTED COMBUSTION CATALYST

Fuel Ox™ treatments contain a patented combustion catalyst that lowers the combustion point of fuel—causing an earlier, more sustained combustion cycle. This results in an increase of power and fuel efficiency as well as a decrease of emissions and DPF regenerations. Customers commonly report a decrease in DEF usage as well.

# 02

### SOLUBLE IN ANY PETROLEUM BASED FUEL AND MULTIFUNCTIONAL

Fuel Ox™ is 100% soluble in all petroleum based fuels including gasoline, diesel, kerosene, and heavy fuel oil to name a few.

# 03

### HIGHLY CONCENTRATED FORMULAS

Fuel Ox™ treatments are extremely concentrated --- Our all season additives are 1:10,000 while some of our winter treatments are at a 1:7500 treatment ratio.

# 04

### SUPER MULTIFUNCTIONAL

Fuel Ox™ additives remove water, protect against carbon build-up on all internal engine parts, disperse sludge, and prevents corrosion of tanks and components. These additives also contain stabilizers to protect fuel from degrading and becoming unusable for up to two years.

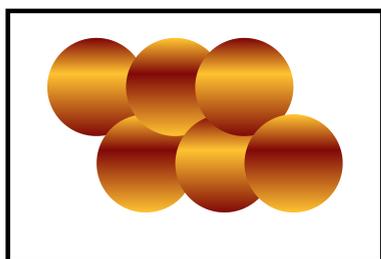
## FUEL OX™ ORGANOMETALLIC CATALYST EFFECT ON POLARIZATION & OXYGENATION OF DIESEL FUEL

The purpose of the Fuel Ox™ fuel catalyst is to generate a more complete combustion of fuel by breaking up the clumps in the fuel. The reason fuel contains these clumps of molecules is because they have an electrical charge. It is the polarization of these fuel molecules that causes them to clump together (Figure 1).

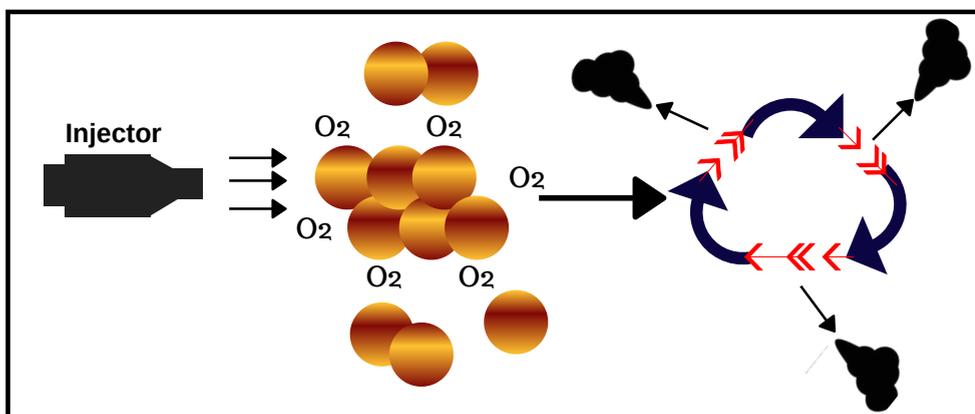
Because of this clumping, air cannot reach the molecules on the inside. Black smoke or soot is the result that occurs when large amounts of fuel molecules escape through the exhaust without being burned (Figure 2).

The Fuel Ox™ catalyst eliminates the polarization binding the fuel clumps together. When the fuel clumps break apart the molecules are ready for oxygenation which results in a more complete combustion.

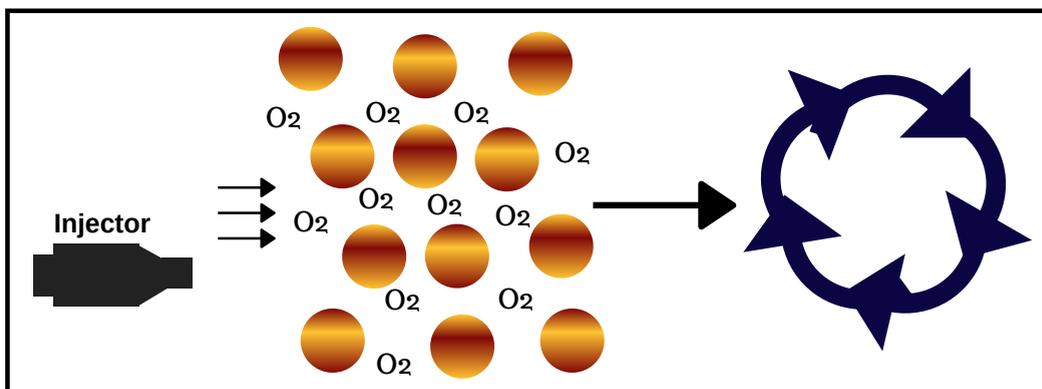
The Fuel Ox™ catalyst exposes more fuel molecules to air which ensures the molecules can achieve a more complete combustion. The catalyst increases uniformity of the fuel molecules making it possible for the injectors in the engine to oxygenate fuel more efficiently (Figure 3).



**Figure 1.** Polarization of the fuel molecules causes them to clump together.



**Figure 2.** Without the use of the Fuel Ox™ catalyst, air cannot reach the molecules inside the clumps. This causes a less complete combustion cycle which results in emissions.



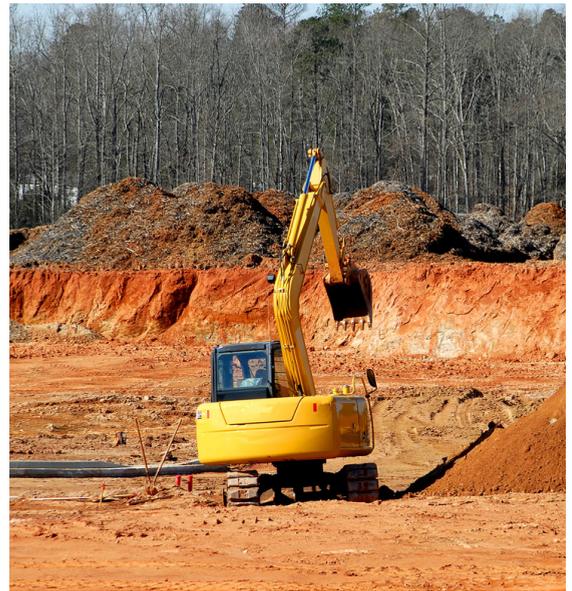
**Figure 3.** When using the Fuel Ox™ catalyst, the molecules are exposed to more oxygen, which allows for the fuel to burn more thoroughly and prompt a more complete combustion.

## Fuel Ox™ - Mining, Heavy Equipment, & Construction

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Construction, heavy machinery, and mining equipment are under constant operation at infrequent speeds and intensity. They also tend to idle for long periods of time. These conditions can build-up deposits of carbon, increase emissions and DPF regenerations, while wearing down and causing injectors to foul.

Fuel Ox™ with Combustion Catalyst provides a cleaner more efficient burn, allowing for a reduction of emissions such as soot/coal, CO<sub>2</sub> and NO<sub>x</sub>. This decrease in soot/coal results in less DPF regenerations, bakeouts and replacements as well as cleaner and longer lasting EGR systems. This more thorough burn also increases power and engine responsiveness as well as fuel efficiency by 5-10%.



## Fuel Ox™ - Trucking & Transport

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Trucks have long routes, short routes, light loads, heavy loads – but one thing they all have in common is that their engines all have the same issues. Carbon build-up in the engine and injectors can lead to fouling and a decrease in fuel efficiency and eventual failure of the components. Emission systems can get caked with soot and will require service or replacement potentially costing a lot of money.

Fuel Ox™ with Combustion Catalyst provides a cleaner more efficient burn, allowing for a reduction of emissions like NO<sub>x</sub> and CO<sub>2</sub> as well as carbon build-up. This results in less DPF regenerations and injector/EGR/DPF replacements and an increase in fuel efficiency and engine responsiveness.

## Fuel Ox™ - Busing & Transportation

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Buses and public transportation vehicles because of their stop and go nature and generally lower speeds have their own unique problems. High idle times contribute to a build-up of carbon throughout the engine as well as very poor fuel efficiency and heavy emissions of all types. This leads to time and money spent replacing engine components, regenerations, bakeouts, and/or DPF replacements.

Fuel Ox™ is ideally suited for the treatment of vehicles in the transportation industry because the improved combustion brought on by the combustion catalyst which increases fuel efficiency, reduces emissions which leads to less DPF regenerations and cleaner EGRs. The strong detergents will also keep the inner engine clean and carbon free.



## Fuel Ox™ - Commercial Marine & Workboats

In the marine industry, regulations ranging from what kind of fuel you can use and where you can use it combined with an environment surrounded by water is a blueprint for problems. Excessive emissions, lack of lubricity, biological growth and water contamination are just a few of the issues that can cause massive headaches in today's high technology marine engines.

Fuel Ox™ with Combustion Catalyst provides a cleaner more efficient burn, allowing for a reduction of emissions like soot/coal as well as NOx and CO2. Fuel efficiency will generally improve 4-7%, carbon build-up in the engines will be eliminated, as will any water in the fuel. Lastly, Fuel Ox™ with Combustion Catalyst will increase lubricity which is important for today's low sulfur diesel engines. Fuel Ox™ also eliminates biological growth in fuel.



## Fuel Ox™ - Bulk Fuel Treatment & Terminals

In the bulk fuel and terminal industry, constant maintenance is necessary to ensure stable, responsive, and consistently clean fuel in bulk tanks. Issues like corrosion, stabilization, and insufficient lubrication can lead to an increase in emissions, sludge, and degraded fuel. Today's Ultra Low Sulfur fuels and bio-diesel blends can cause an array of issues that can damage, require expensive repairs, and cost your business time, money, and clients.

Fuel Ox™ products are very concentrated so that a little bit goes a long way. Fuel Ox™ products also contain detergents, stabilizers, and lubricity agents compatible with all fuels including Ultra Low Sulfur Diesel (ULSD). We offer both all-season and winter blends to insure that your customers are satisfied with your fuels all year long.

## Fuel Ox™ - Governmental/Municipalities

Public works and municipality vehicles historically have high idling times and travel in small confined areas which create an excess of emissions that leads to clogged DPF's and EGR's as well as carbon buildup on injectors and engine components. These conditions cause an inefficient use of the fuel and vehicle responsiveness to suffer.

Fuel Ox™ is ideally suited for the treatment of municipal vehicles because of its combustion catalyst. This provides a cleaner more efficient burn, allowing for a reduction of emissions like soot/coal, NOx and CO<sub>2</sub> as well as carbon build-up within the engine. The result in less DPF regenerations and replacements. Most customers report a notable reduction in DEF usage and an increase in fuel efficiency and engine responsiveness.



## PROOF THAT FUEL OX™ WORKS

Companies that are interested in utilizing Fuel Ox™ have been testing it for themselves prior to purchase since the inception of the company. Some have done so in laboratory settings. Most have chosen to run trials in the field. Some have been extremely comprehensive like McAllister's Towing. We allow any company that wishes to the opportunity to do the same. We have conducted hundreds of these tests which measure fuel efficiency, DPF regenerations, and DEF usage. Some of the most significant test results are below.

### IAMGOLD CORPORATION

IAMGOLD is engaged in the exploration, development, and production of mineral resource properties throughout the world. The test was conducted on two water pumps at the Essakane Gold Mine in Burkina Faso.

### MCALLISTER TOWING & TRANSPORTATION

McAllister Towing & Transportation is one of the oldest and largest family-owned marine towing and transportation companies in the United States. The test conducted on the Alex McAllister tug took over a month and 17,000 gallons of fuel.

The Alex McAllister is a twin engine, 4000 horsepower Z-Drive Tractor Tug, ABS Classed, A1 Towing vessel.

### INTERTEK GROUP PLC

Intertek is an international product testing, inspection, assurance, and certification company. Intertek tested for the effect that Fuel Ox™ had on fuel emissions and pollution on a diesel vehicle.

Intertek's findings concluded that the Fuel Ox™ additives have significant positive effect on the emissions as detailed below.

#### FINAL RESULTS

**Improvement: 9.75%**

#### FINAL RESULTS

Engine without Fuel Ox™	45.57 gallons per hour
Engine with Fuel Ox™	42.85 gallons per hour
Difference	2.72 gallons per hour
<b>Improvement: 5.97%</b>	

#### FINAL RESULTS

CO2	<b>Reduced by 20%</b>
NO	<b>Reduced by 12.3%</b>
NOX	<b>Reduced by 6.3%</b>
H2S	<b>Reduced by 12.5%</b>

## OTHER SIGNIFICANT TESTING RESULTS

### In Summation

The Fuel Ox™ with Combustion Catalyst is truly one of a kind. No other fuel additive actually improves the combustion to the point that the fuel efficiency is consistently improved over 5% while emissions are reduced as much as 50% or more. The ROI when considering fuel savings alone is 5-10x -- even before considering the maintenance benefits!

Company Name	Industry/ Vehicle Tested	Test Results
Cali Carting	Waste Management	+10.4% MPG, +49.6% DEF Savings
Enel	Power Generation	+8% MPG, -70% Soot/Coal Reduction
Watkins & Shepard Trucking	Trucking/Transport	+6.7% MPG
United Arab Shipping Company	MV Al Hilal	+5.7% MPG Heavy Fuel Oil
Martin Paving	Triaxle Dump Truck	+9.13% MPG, +14% DEF Savings
Weistmans/Upstate Shredding	Cat 988H Loader	+12.15% MPG, -50% Regenerations
Casilio Concrete	Concrete/Mixer	+12.5% MPG, +20.2% DEF Savings
Metropolitan Trucking	Trucking/Transport	+21.4% DEF Savings
Student Transportation of America	School Bus Company	+50% DEF Savings, +90% Rail Sensor Replacement
Coventry Transportation	School Bus	+13% MPG



## FUEL OX™ PRODUCT SUMMARY

Fuel Ox™ with Combustion Catalyst additive is a unique, proprietary fuel treatment designed to improve vehicle performance and extend engine longevity.

The enhanced stability and dispersant/detergent features make it indispensable in dealing with problem fuels or fuels in storage.

Fuel Ox™ with Combustion Catalyst works in any combustible engine including automobiles, trucks, off-road vehicles, heavy equipment, trains, and ships, etc. Thorough testing and application has proven this additive to be compatible and 100% soluble with all types of middle distillate and heavy fuel oils.

## PRODUCT BENEFITS

- **1 gallon treats 10,000 gallons of fuel**
- **Improves fuel efficiency by as much as 7-10%**
- **Increases horsepower**
- **Lubricates fuel system**
- **Reduces regenerations/emissions**
- **Removes water**
- **Stabilizes fuel**
- **Cleans fuel system**
- **Prolongs life of all fuel related components**

## FUEL OX™ BY THE NUMBERS

Fuel Ox™ is the first fuel additive that is not only beneficial to the bottom line but is great for sustainability as well.



## BASE COST OF FUEL OX™: < 1.5% OF FUEL COSTS

### BENEFITS METRIC

### ROI RATING

⊕ Increase in fuel efficiency of 4-10%	4 to 10
⊖ Reduction in DEF usage by over 20%	0.5
⊖ Reduction in DPF regenerations by 50% or more resulting in less wasted man hours and less breakdown and equipment retrieval costs, etc.	5 to 10
⊖ Reduction in DPF cleanings and replacements of 50% or more	0.5
⊖ Reduction in soot buildup on EGR's by 50% or more and reduction of EGR component failure and replacements	0.5
⊕ Increase in injector life and other engine components and increase in filter life	1
⊖ Far less cost due to bacteria damage in both holding tanks and vehicles/equipment	0.5
⊕ 1:10,000 treatment ratio is easier to work with and transport and store and reduces human error in application	?
⊖ Huge reduction in fuel rail sensor replacements	0.5
⊖ Reduced clogging of Differential EGR Pressure Sensors	0.5
⊕ Much cleaner DOC's	0.5
⊖ Much less fuel degradation issues - stabilizes fuel for up to 2 years	?

Total Potential ROI : 10-15+

### SOCIALLY CONSCIOUS BENEFITS

### ROI RATING

- ⊖ Overall decrease of emissions
  - ⊖ Soot by as much as 70%
  - ⊖ CO2 by 20%
  - ⊖ NO by 12%
  - ⊖ NOx by 8%
  - ⊖ H2S by 12.5%
- ⊖ Using less fossil fuels to operate equipment

Is it possible to put an ROI value on doing the right thing for the environment?

### BOTTOM LINE

Fuel Ox™ with Combustion Catalyst is not a conventional fuel additive.

There is no other fuel additive available that provides as many advantages to the user as Fuel Ox™ with Combustion Catalyst. The cost of our additive is dwarfed by the tremendous value of its benefits. Finally, Fuel Ox™ puts our money where our mouth is by allowing potential customers to try it for themselves before purchasing.

Contact us today to get started with your own trial.

- Rand Taylor, President Fuel Ox™

## FUEL OX™ FOR ANY OCCASION

Fuel Ox™ is dedicated to providing fuel consumers the most technologically advanced fuel treatments on the market. See below for more information on our other powerful and concentrated fuel treatments that inhibit common fuel related issues while some also contain our patented combustion catalyst\*.

### FUEL OX™ COLD CHARGE\*

A full service winter additive that protects fuel systems from gelling and freezing while maintaining condition of fuel system.

- 1 gallon treats 7,500 gallons of fuel
- Prevents fuel system icing & gelling
- Reduces pour point
- Reduces cold filter plugging point (CFPP) by 25°-45°
- Reduces regenerations/emissions
- Increases fuel economy
- Lubricates & cleans fuel system
- Increases horsepower
- Removes water



### FUEL OX™ FREEZE GUARD

A military grade anti-gel additive that prevents fuel systems from gelling and freezing while maintaining the fuel system condition.

- 1 gallon treats 10,000 gallons of fuel
- Removes water from fuel
- Contains an anti-gel additive that reduces cold filter plugging point (CFPP) up to 45°
- Reduces pour point about 60°



### FUEL OX™ ASPHALTENE\*

A multifunctional and performance enhancing additive that inhibits the formation of asphaltene

- 1 gallon treats 7,500 gallons of fuel
- Removes and prevents the formation of asphaltenes
- Improves fuel economy
- Reduces regenerations/emissions
- Removes water
- Lubricates & cleans fuel system
- Increases horsepower
- Prolongs life of all fuel related components
- Stabilizes fuel



### FUEL OX™ HEAT BOMB

A winter emergency formula that restores the flow frozen or gelled fuel.

- Re-liquefies frozen or gelled fuel
- Unfreezes frozen fuel filters
- Removes water
- Protects against fuel-filter icing or freezing
- Increases lubricity in fuel pumps and injectors



### FUEL OX™ OTR LINE\*

The Fuel Ox™ OTR line is designed to improve vehicle performance and extend engine longevity. Each over-the-road treatment is extremely concentrated with powerful military grade protections and fuel enhancements. The Fuel Ox™ Cold Charge OTR\* and the Fuel Ox™ Freeze Guard OTR is intended for the winter months to prevent fuel gelling and lower CFPP while the Fuel Ox™ OTR\* is designed to be used all year round.



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*"The true definition of madness is repeating the same action, over and over,  
hoping for a different result"*

*- Albert Einstein*

*"The measure of intelligence is the ability to change."*

*- Albert Einstein*

*"You can't use an old map to explore a new world."*

*-Albert Einstein*