

OPTIMIZING
**MINING &
DRILLING**
EFFICIENCY



**Proven Results with Fuel Ox® with
Combustion Catalyst**



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INTRODUCTION TO **FUEL OX®** WITH COMBUSTION CATALYST

The Ultimate Solution for Mining Operations

Fuel Ox® isn't just another fuel additive—it's a revolutionary advancement for the mining industry, where every drop of fuel and every minute of uptime counts. With its unique, metallic-based combustion catalyst, Fuel Ox® delivers two unbeatable advantages: **exceptional fuel efficiency** and **drastic emissions reduction**.

Mining operations demand the highest performance from their engines, and Fuel Ox® is engineered to meet those demands head-on. Traditional fuel additives can't match what Fuel Ox® achieves. It **reduces soot by as much as 60% or more**, significantly cutting down the wear and strain on modern emissions systems like DPFs, EGRs, and VOCs.

The result? A massive reduction in maintenance costs and equipment downtime—critical savings that translate directly to your bottom line.



Why Fuel Ox® is Essential for Your Operation

Fuel Ox® doesn't just improve fuel efficiency by extracting more energy from every gallon; it also dramatically cuts emissions, making it a win-win for your operations.

Here's why Fuel Ox® is indispensable for the mining industry:



Maximized Fuel Efficiency:

Get the most out of every drop of fuel, cutting consumption and driving cost savings.



Dramatic Emissions Reduction:

Cut down on soot and harmful emissions, ensuring compliance and promoting environmental responsibility.



Lower Maintenance Costs:

Cleaner engines mean fewer breakdowns, less wear and tear, and reduced maintenance expenses.



Extended Engine Life:

Prevent carbon buildup and protect vital engine components, ensuring longevity and reliability.



Concentrated & Versatile:

Super concentrated to enhance diesel, gasoline, and other fuels for optimal operation.



Protects Emissions Systems:

Lowers emissions at the source to reduce stress on EGRs, DPFs, sensors, and valves—helping prevent failures between PMs. Minimizes fuel-quality-related issues, boosting reliability and cutting costly repairs.

HOW FUEL OX® WORKS

THE SCIENCE BEHIND SUPERIOR COMBUSTION

Fuel Ox® uses advanced metallic atoms as catalysts to optimize the combustion process in engines, resulting in more complete fuel burning, fewer emissions, and enhanced engine performance. **Here's how it makes a difference:**

Lowering the Activation Energy:

Fuel Ox® releases metallic atoms into the combustion chamber that act as catalysts, reducing the energy needed for fuel to ignite. This means your fuel ignites more easily and burns more completely at lower temperatures—delivering more power from every drop.

Boosting Combustion Efficiency:

As temperatures rise, these metallic catalysts promote the formation of free radicals—highly reactive molecules that enhance the combustion reaction. This ensures more thorough burning of the fuel, leaving fewer unburned hydrocarbons and maximizing fuel use.

Increasing Flame Temperature and Speed:

The metallic particles help maintain a hotter and faster-burning flame, leading to a more complete breakdown of fuel molecules. This reduces soot formation and minimizes other byproducts of incomplete combustion, keeping your engines running cleaner and longer.

Protecting Engine Components:

By ensuring more complete combustion, Fuel Ox® prevents harmful carbon buildup on critical engine parts such as injectors, valves, and exhaust systems. This means lower maintenance costs, less downtime, and extended engine life—all while maintaining consistent performance.

Fuel Ox® sets a new standard for fuel additives, providing real-world results where it matters most—in the field. Following these pages, you'll find trial results from mining companies worldwide that prove its effectiveness.



RESULTS FROM **LEADING AFRICAN MINING/DRILLING COMPANIES**

Trials across Africa show Fuel Ox® with Combustion Catalyst enhances **fuel efficiency**, providing substantial cost savings in challenging conditions. A proven solution for fuel-intensive operations.

Company	Location/Date	Machinery Number	Machinery Description	Result
IAMGOLD	Essakane Mine, Burkina Faso Sept 2019	CM 284	150-ton Haul Truck	+8.12%
		CM 811	150-ton Haul Truck	+10.1%
		TC 744	Caterpillar D-9 Bulldozer	+32.14%
		Water Pumps		+9.75%
PW MINING	Accra, Ghana March 2020	#121	Caterpillar 777D Large Haul Truck	+9.32%
		#131	Caterpillar 777D Large Haul Truck	+14.43%
ANGLO GOLD ASHANTI	Obuasi, Ghana Feb 2020	EX-16	Excavator	+37.4%
		GW5513-24	Haul Truck	+1.8%
		GT4615-230	Haul Truck	+9.2%
		HEX-01	Excavator	+42.4%
		GT4611-23	Haul Truck	+36.6%
		DZ-05	Bulldozer	+11.1%
ANGLO GOLD RAMOTH	Kumasi, Ghana	DZ-05	Bulldozer	+10.65%
		EX-16	Excavator	+14.68%
		GT4615-23	Haul Truck	+15.66%
RABOTEC	Accra, Ghana, June 2020	D0-02	Bulldozer	+17.69%
		345	Excavator	+11.2%
MINING HAULAGE KATANGA	Democratic Republic of Congo	PO8	Haul Truck	+5.1%
		TT-110	Haul Truck	+13.3%
		TT-410	Haul Truck	+8.9%

OTHER SIGNIFICANT RESULTS

Testing worldwide—including lab and field settings—shows Fuel Ox® reduces emissions, improves fuel efficiency, cuts DEF use, and lowers DPF regenerations.

All non-third-party tests were company-supervised, often with ISG or Fuel Ox consultation.

Company	Description	Emission Tested		Result
INTRUMENTS LAB S.A.C. FOR TINKA RESOURCES	14,000 ft, Andes Mountains Machinery Tested: Two diesel electricity generators	Emission Temperature		-33.5%
		Particulate Matter (PM)		-84.29%
		Hydrogen Sulfide (H2S)		-67.29%
		Nitrogen Oxides (NOx)		-52.85%
		Nitrogen Monoxide (NO)		-69.57%
		Sulfur Dioxide (SO2)		-78.2%
INTERTEK GROUP PLC	Diesel truck tested by Intertek using MRU Vario Plus SE	Carbon Dioxide (CO2)		-20%
		Nitrogen Monoxide (NO)		-12.3%
		Nitrogen Oxides (NOx)		-6.3%
		Hydrogen Sulfide (H2S)		-12.5%
Company	Location/Date	Machinery Number	Machinery Description	Result
DETROIT DIESEL/MTU TESTING CENTER FOR ANGLO AMERICAN	Santiago, Chile	MTU Genset		+3.96%
PARKER WELLBORE	Sharjah/UAE facility	Three diesel generators: #028 (2020, 500 KVA), #029 (2012, 500 KVA), and #077 (2018, 650 KVA).		+10.24%
MCALLISTER TOWING & TRANSPORTATION	Philadelphia, PA	4000 horsepower Z-Drive Tractor Tug, ABS Classed, A1 Towing vessel		+5.97%
WEITSMAN/ UPSTATE SHREDDING	Owego, NY, USA	Cat 988H Loader		+12.15% MPG -50% Regenerations
MARTIN PAVING	Lititz, PA, USA	#235	Triaxle Dump Truck	+9.13% MPG +14% DEF Saving
F.LLI STAMEGNA	Italy	720 KVA MTU 12V2000 engine type G63		+8% MPG -70% Soot/Coal Reduction

INFINITY LUBE™ LINE:



SUPERIOR PERFORMANCE & SUSTAINABILITY

INFINITY LUBE
BY FUEL OX®

Take your maintenance program further with the Infinity Lube™ line of lubricants—offering both **plant-based, toxin-free solutions** and a **powerful conventional lithium complex grease** for extreme durability.

Super Grease (Lithium Complex)

Engineered for the harshest conditions, Infinity Lube™ Super Grease is a high-performance lithium complex grease that resists water washout, oxidation, and extreme pressures. Ideal for bearings and heavy equipment, it slashes friction and extends service intervals—perfect for demanding applications.



Super Grease (Plant based)

Achieve peak protection with Infinity Lube™ Super Grease, engineered to excel in both light and heavy-duty applications. This advanced formula reduces friction, conditions metal surfaces, and resists water washout and oxidation—even under extreme conditions. Ideal for bearings, mechanical equipment, and any metal-to-metal contact, it delivers unmatched reliability and durability.



Friction Eliminator

Maximize equipment life and performance with Infinity Lube™ Friction Eliminator. Designed to form a protective layer that dramatically reduces friction and wear, it is ideal for crankcases, gearboxes, and hydraulic units, providing extended service intervals, minimized downtime, and superior operational efficiency.



Super Spray

Infinity Lube™ Super Spray is your solution for the toughest applications where a grease gun can't reach. It's perfect for all exposed machinery and metal parts, effectively reducing friction, cleaning, degreasing, protecting, and freeing rusted components. Use it on forklifts, chains, cables, moving parts, and metal tracks for versatile, enduring protection.



Testimonial: Real Results from the Field

Large Mining Company – Eastern KY
Equipment: 988H CAT Loader

"Applying Infinity Lube Super Grease to the bucket pins of our 988H CAT Loader changed everything. Normally, we had to grease every 10-12 hours, but with Infinity Lube, we went **6 shifts before re-greasing**, even in water-covered conditions. The heat reduction was immediate, and we used **80% less grease**, cutting costs and boosting productivity. Infinity Lube has revolutionized our maintenance approach."

— Chris Goebel, Maintenance Coordinator
Alpha Natural Resources, Kentucky, USA

Don't compromise with toxic, outdated lubricants. Switch to Infinity Lube™—a plant-based solution engineered to deliver superior performance and sustainability. Keep your operations running smoothly and efficiently, even in the harshest conditions.



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