



- CB Fluid Lube
- CB Glass Beads
- CB Oil Absorbent
- CB Premium Thread Coat
- CB Fuel Treatments
- Mettle Plus Grease
- CleanBoost Brake Clean
- Engine Filtration

[www.cbdownhole.com](http://www.cbdownhole.com)

Phone: 866-680-3055 option 2



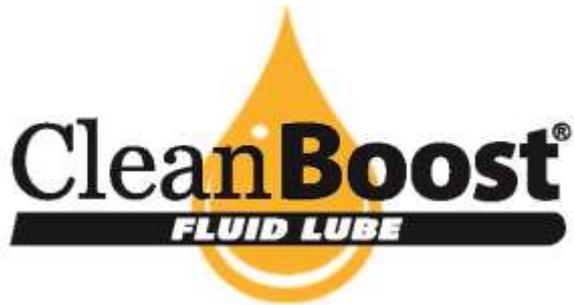
# CleanBoost Downhole Solutions Company Information

**CleanBoost Downhole Solutions** is a private company, based in Sandy, Utah. With the unique background and experience of its partners, CleanBoost Downhole Solutions is able to understand and address a wide range of fluid and chemical issues that concern Oil and Gas operators with their drilling, completions and production work.

We can supply most commodity items at competitive prices, but our real strength is our very own CleanBoost product offerings. These innovative flagship products have been engineered to perform under the harshest conditions and they can provide benefits not available with competitive brands and can be more cost-effective as well.

CleanBoost Downhole Solutions is your One-Stop Chemical and Fluid Supplier for Drilling, Completion & Production and for Proactive Diesel Maintenance.

With offices in the United States, Canada and Honduras, we have you covered.

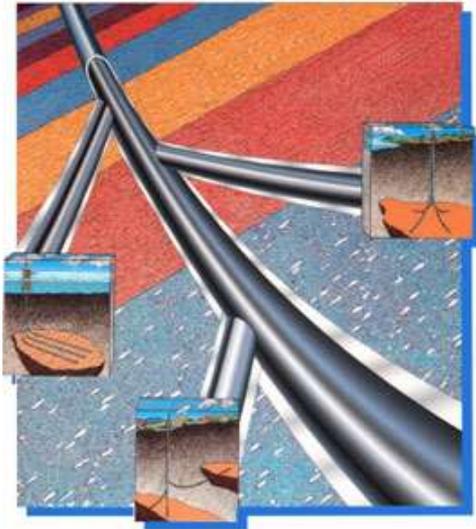


## **CleanBoost Fluid Lube** **“Friction Reducing Mud Additive”**

- **CleanBoost Fluid Lube is a Friction Reducing Product added to drill mud at .5 to 1.5 % by volume (water based, oil based or brine) for Faster ROP, Less Drill Bit Drag, Less Trips, Reduced Torque**
- **CleanBoost Fluid Lube is a Downhole drilling additive that will help with one of the harshest environments that creates extreme heat, pressure and friction. With CleanBoost Fluid Lube your drilling team can see benefits and cost savings in many areas with your drilling equipment.**



## CleanBoost Fluid Lube “Friction Reducing Mud Additive” Continued:



**Drill Bit:** Reducing friction saves heat and wear on drill bits, saving up to 2 bits per well drilled.

**Drill Pipe Trip Savings:** Save up to one or two trips on average per 12,000 ft drill site.

**Drill Mud Motor Savings:** Reduce the number of mud motors used to drill a well.



# CleanBoost Fluid Lube “Friction Reducing Mud Additive” Continued:

## Competitor Testing, Torque, Coefficient, Viscosity

### CleanBoost Downhole Solutions

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### Testing of Fluid Lube Drill Mud Additive vs. Leading Competitor # 1

Sample	13-04A-1	13-04A-2	13-04A-3	13-04A-4	13-04A-5
Generic Mud # 7 (ml)	350	350	350	350	350
Fluid Lube Lab # 10613 (ml)		10.5		10.5	
Leading Competitor # 1 (ml)			10.5		10.5
Temperature of Fluid	150F	150F	150F	150F	150F

#### Note:

Sample: 13-04A-1 # 7 Mud Only

Sample: 13-04A-2 & 13-04A-4 (Fluid Lube)

Sample: 13-04A-3 & 13-04A-5 (Leading Competitor # 1)



	Mud Only	CB Fluid Lube (3%)	Competitor # 1 (3%)	CB Fluid Lube (.0857%)	Competitor # 1 (.0857%)
Shear in Mixer for 10-min (high shear)					
<b>Lubricity test 150 inch-pounds of torque @ 60 rpm for 5min</b>					
Meter Torque Reading	24.2	11.4	13.5	16.3	19.4
Mud Lubricity Coefficient	0.25	0.12	0.14	0.17	0.21
Percent (5) Torque Reduction at given load		52.90%	44.20%	32.60%	19.80%

#### Viscosity of Generic Mud treated with Lubricant

pH	8.46	8.72	8.97	8.51	8.88
Density	10.98	10.92	10.9	10.87	10.97
True Viscosity (March Funnel)	65	139	Too Thick, Cannot Test	85	380
Percent (%) Torque Reduction		52.90%	44.20%	32.60%	19.80%





## *CleanBoost Glass Beads* *“Friction Reducing Beads”*

- **CleanBoost Glass Beads are a mechanical solution which are added to drill muds which act as ball bearings between surfaces. CleanBoost Glass Beads are used to assist slide drilling and horizontal drilling.**

**BENEFITS: Reduces torque and drag, Effective in coil-tubing drilling, Will not float , Temperature stable, Provide true weight to bit.**

**Economical Application: Sweeps containing 10 to 20 ppb are effective when slide drilling and/or horizontal drilling. Pills containing 5 to 10 ppb spotted across trouble zones prior to logging or running casing have proved beneficial.**



## ***CleanBoost CBOA*** ***“Oil Absorbent”***

**CBOA**

**On any surface**

Just one  
2 Cu. Ft. bag  
of CBOA will  
solidify 5  
gallons of  
diesel fuel.



- ***CleanBoost Oil Absorbent*** is a 100% organic, environmentally safe and water repellent product that will turn any petroleum spill into a fluffy dry substance on contact.
- ***CB Oil Absorbent*** is made from a peat moss fiber that is screened to a smooth consistency then dehydrated. This makes it a natural encapsulator of petroleum products. No more messy, sopping piles made from other products.



## CleanBoost CBOA “Oil Absorbent” Continued

- Because *CleanBoost Oil Absorbent* completely encapsulates the spill, it cannot spread or leak back into the environment. Advantages: This unbelievable product is all natural, 100% organic, non-toxic, non-abrasive and is water repellent. It will transform any petroleum spill into a fluffy dry substance on contact. You will eliminate messy and costly clean-up quickly and easily and ... all you need is a broom, that's it! People friendly... *CB Oil Absorbent* does not contain any toxic chemical which are harmful to humans.

### How Other Products Compare to CleanBoost Oil Absorbent

To Absorb 1 Quart of 10/30 Wt. Motor Oil

Product	Amount	Does Oil Leach Out of Mixture?
CBOA	1 Lb.	No
Recycled Pulp	2.5 Lbs.	Yes
Corn Cob	6 Lbs.	Yes
Clay	10 Lbs.	Yes
Polypropylene	4 Pads	Yes

Product Properties	Clay	Corn Cob	Recycled Pulp	Poly	CBOA
Biodegradable		Yes	Yes		Yes*
Bioremedial					Yes**
Non-Abrasive		Yes		Yes	Yes
Non-Leaching					Yes
Vapor					Yes
Non Carcinogenic		Yes	Yes	Yes	Yes
Repels Water					Yes

\*CleanBoost Oil Absorbent is already in a fully bio-degraded state

\*\*CBOA contains hydrocarbon (oil, gas & grease) eating microbes



## CleanBoost CBOA “Oil Absorbent” Continued

### CBOA Absorbs These Chemicals:

Acetone	Ethyl Ether	Oil Base Ink
Acetonitrile	Ethyene Glycol	Paint Thinners
Amyl Acetate	Gasoline	Paraffin Oil
Benzene	Heptane	Pentane
Brake Fluid	Hexane	Pentachlorophenol
Bromodichloromethane	Hexachlorobenzene	Phenol
Bromoform	Hexachlorobutadiene	Polymers
Bunker C	Hexachloroethane	Propanol
Butanol	Hexene	Resins
2-Butanone	Hydraulic Oil	Scintillation Liquid
Canola Oil	Isobutanol	Silicon Oils
Carbon Disulfide	Isoprene	Solvents
Carbon Tetrachloride	Isopropanol	Styrene
Chloroform	Jet Fuels	Tetrachloroethane
Chloromethane	Kerosene	Tetrachloroethylene
Chlorobenzene	Methanol	Tetrahydrofuran
Corn Oil	Methylene Chloride	Toluene
Cutting Oils	Methyl Ethyl Keytone	Transmission Fluid
Cyclohexane	Methylphenol	Trichloroethylene
Dichlorobenzene	Motor Oils	Trichlorophenol
Dichloromethane	Napthalene	Varsol
1,2-Dichloroethane	2-Nitroaniline	Vinyl Acetate
Diesel Fuels	Nitrobenzene	Vinyl Chloride
Ethanol	Oil Base Paints	Xylenes
Ethylbenzene	Oil Base Driving Fluids	

\*Encapsulates Heavy Metals

- CB Oil Absorbent has the highest absorption rate over conventional absorbents.
- Just one 2 cubic ft. (approximately 18 lb.) bag will solidify up to 6 gallons of oil or petroleum based chemicals. CB Oil Absorbent is landfill safe can be incinerated and has a high BTU value, leaving only a 3% ash residual.

**General Data:** Absorption: up to 12 times its weight! Reaction Time: instant. Retention: meets leachate standards. Toxicity: non-toxic, environmentally safe. Disposal: incineration or landfill in accordance with regulatory authority guidelines. Products absorbed: polychlorinated biphenyls (PCBs), fuel oil, aviation fuel, oil-based paints, crude oil, oil-based inks, vegetable oils and more.



## ***CleanBoost*** ***“Premium Thread Coat”***

- **CleanBoost Premium Thread Coat contains no lead or zinc. Extreme pressure additives provide additional protection against seizing and galling. CleanBoost Premium Thread Coat provides superior rust and corrosion protection.**
- **Brushable and stable over a wide temperature range. Consistent rig floor makeup. Unequaled resistance to makeup downhole. Highly resistant to drilling muds**



## ***CleanBoost*** ***“Premium Thread Coat”*** ***Continued***



### **Applications:**

- CB Premium Thread Coat has been designed to help in the more severe drilling situations such as higher speeds, higher penetration rates, deviated holes or harder formations.
- Drill collars and/or standard rotary shouldered connections should be clean of dirt, mud and solids before applying.
- CB Premium Thread Coat can be used for standard and premium threaded connections.



# *CleanBoost Fuel Treatment* *"Diesel Fuel Additive"*





# *CleanBoost Fuel Treatment* *“Diesel Fuel Additive”* *Continued*

Black smoke (opacity) causing surface field contamination for farmers and environmental concerns.



CleanBoost Fuel Treatment when added to the fuel, the majority of the black smoke will no longer be visible as well as reduced EGT's (Exhaust Gas Temperatures)



# *CleanBoost Fuel Treatment*

## *"Diesel Fuel Additive"*

### *Continued*

## **Emission Testing and Reduction**

Diesel Exhaust Stacks before adding  
CleanBoost Fuel Treatment



Diesel Exhaust Stacks after 3 days of  
use adding CleanBoost Fuel Treatment





# *CleanBoost Fuel Treatment* *“Diesel Fuel Additive”* *Continued*

## **Lubricity, Soot and Ash Testing**



Cleaner injectors using CleanBoost additive  
with just 500 of working hours

Valves, turbo and turbo ring show less  
ash only and no hard soot as previous  
experience without additive





# ***CleanBoost Fuel Treatment*** ***“Diesel Fuel Additive”*** ***Continued***



- **CleanBoost Fuel Treatments are a great option for fuel storage and help remove water and moisture in stored fuels.**
- **CleanBoost Fuel Treatments have proven over and over in testing to save up to 10 % in fuel consumption and helps reduce fuel related downtime issues.**



## ***Mettle Plus Grease*** ***“EP Grease for Equipment & Valves”***



Mettle Plus Gold EP Grease is superior lithium complex grease designed to provide excellent lubricating qualities over a wide range of temperatures. Designed for work under the toughest conditions with excellent mechanical and chemical stability.

### **Features:**

- \* Outstanding wide temperature range grease.
- \* Unequaled water washout resistance.
- \* Excellent shock load-carrying ability.
- \* Oxidation inhibitors for extended periods.
- \* Melting point +650°F





## ***CleanBoost Brake Cleaner*** ***“Grease, Dirt & Asbestos Remover”***

**CleanBoost Brake Cleaner** is an effective way to remove oil, dirt and other debris from your equipment or your equipment’s braking system because of the combination of chemicals used to break those elements down and wash them away.

Over time parts and components can become coated with grease, dust and contaminants impairing the way they perform. **CleanBoost Brake Cleaner** is an oil-free spray that instantly removes brake dust, grease, dirt and grime from all your equipment parts. CleanBoost Brake Cleaner is a heavy duty formulation legal for use in all states except California.



## ***Engine and Fuel Filtration “Longer Oil and Fuel Life”***

### **Workover Drilling Rig Filtration (Engine & Hydraulic)**



Workover Rigs are complex, difficult and expensive to operate. Workover Rigs have multiple oil sumps and lubrication points and need to operate efficient with no down time issues.



Extending oil drain intervals and keeping the hydraulic systems clean allow workover rigs to do the job on a timely manner and reduce downtime issues. Proactive Maintenance is a must for all drilling operations.



## BP Gas Compression Filtration



# Engine and Fuel Filtration “Longer Oil and Fuel Life”



*Combust Filters* help combustion engines, mobile and stationary equipment reduce extensive maintenance budgets to extend lubricating oil on a routine basis. Engines provide the most extreme conditions for lubricating oil, water, particulate contamination, extreme heat, and the introduction of air.

As a result, the oil oxidizes much quicker than in fluid power systems and requires frequent oil replacement. Maintaining heavy mobile equipment in the mining industry can consume up to 70% of their total maintenance budget.



## Oils & Fuel Carts



# *Engine and Fuel Filtration*

## *"Filter Carts –mobile option–"*

- Saves on Component Parts and Reduces Maintenance Costs.
- Prevents Fine Tolerance Valves and Servos from Sticking.
- Saves on Replacement Oil and Oil Disposal Costs.
- Fast, Easy Cartridge Changes Without Stopping Machinery.
- Improves the Machine's Filtering System.
- Reduces Unnecessary Pump Wear and Decreases Cavitation.
- Eliminates Dirt that Causes Corrosion of Hoses, Seals and Control Valves.
- Two Micron Filtration and 100% Water Removal.
- On Diesel Fuel, polish and remove 100% of the water.
- Clean Storage Tanks.
- Spin-On Filters for Fuel Dispensing Pumps.
- Filter down to .05 micron for better injector life.



Stationary Fuel Filter  
Up to 500 GPM



Special Applications

## *Fuel Filtration "Stationary and Mobile"*



Dispensing Filtration



## Contact Information

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