

ALGAE-X[®]



**CLEANS DIESEL FUEL
FILTERS & TANKS**

Clogged filters, dirty tanks?

ALGAE-X® *Cleans your
fuel system by simply
running the engines*



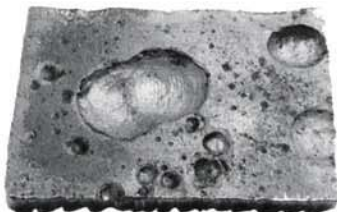
Most engine failures originate in the fuel tank

Frequent Filter changes and cleaning fuel tanks have become acceptable periodic maintenance instead of a **warning signal for engine failure**. Filter elements should last a thousand hours or more, and injectors some 15,000 hours. However, since fuel is inherently unstable, solids begin to form and the accumulating tank sludge will eventually clog your filters, ruin your injectors and cause engines to smoke.

Fuels and oils are susceptible to natural deterioration, like any other organic fluid. Oxidation, chemical incompatibility, water and microbes all contribute to the process of polymerization and stratification. This results in poor Fuel Quality, tank sludge, bio film and acids. **These by-products of the process of fuel breakdown cause clogged filters, corroded injectors, pumps and tanks, incomplete combustion, carbon build-up, smoke, and loss of power, which ultimately leads to complete engine failure.**

Filters and centrifuges remove particles and free water, and biocides are used to control microbial activity. Neither, however eliminates fuel instability or sludge buildup, and additive treatment frequently aggravates filtration problems. **The solution is Algae-X Fuel Conditioning Technology**. Algae-X reverses the process of fuel breakdown, restores fuel filterability, enhances combustibility, and prevents clogged filters & tank sludge.

SYMPTOMS...



*Corrosion caused by
Sulphate Reducing Bacteria.*

- **Clogged and slimy filters**
- **Dark, hazy fuel**
- **Sludge build up in tanks**
- **Loss of power and RPM**
- **Excessive smoke**
- **Corroded, pitted injectors**
- **Foul odor**



ALGAE-X® Total Fuel System Management

Diesel engines return excess fuel not used for combustion back to the tank. This enables Algae-X, installed in the fuel line before the primary filter, to continuously treat the fuel and keep the entire system clean.

In high-turnover fuel/oil terminals Algae-X is installed between the loading dock and the primary filter banks. In long-term storage Algae-X is installed in re-circulating systems to prevent fuel degradation and sludge build up.

Algae-X units are **self-cleaning** and easy to install, have no moving parts, no electrical hookup, and require **Zero Maintenance**.

ALGAE-X® Optimal Fuel Quality...

- **Prevents clogged Filters and Tank cleaning**
- **Provides Peak Engine Performance**
LOWER FUEL CONSUMPTION
MORE POWER – LESS SMOKE
- **Extends life of engines, injectors and fuel**
Reducing maintenance & downtime
Lowering operating cost
- **Eliminates costly toxic chemicals**
Enhancing Safety of personnel
Protecting the environment
- **Saves Money, increases Safety and Reliability**



BEFORE

AFTER

ALGAE-X® Technology

Operates on the principle of induction --the process of combining kinetic and magnetic energy to influence the behavior of electrons. Algae-X provides a powerful magnetic field and the flow of fuel provides the kinetic energy.

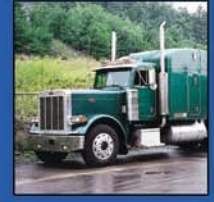
As fuel deteriorates, clusters of fuel components and other fuel breakdown residue begin to accumulate, resulting in dark, hazy fuel with poor combustibility. The increase in size and mass of the fuel breakdown products lead to clogged filters and the build up of tank sludge (**algae**).

Algae-X dissolves the clusters, stabilizes the fuel, and eliminates tank sludge. The results are "Clear & Bright Fuel" improved filterability, optimal combustion and clean fuel systems.

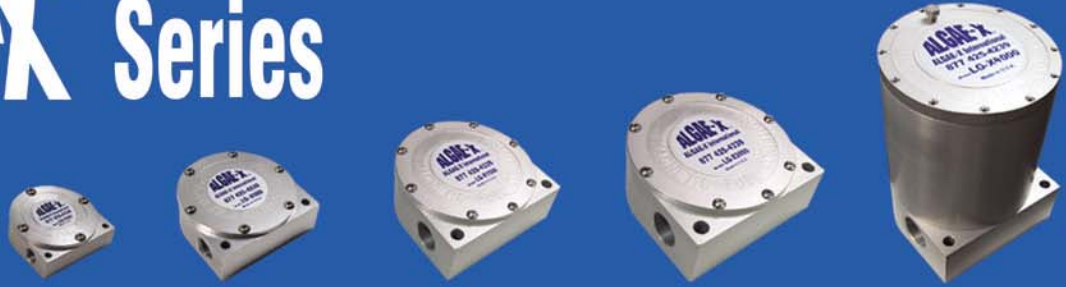
Call ALGAE-X® ...

...before spending a fortune cleaning your Tanks or replacing the Fuel

Commercial Military and Recreational Applications



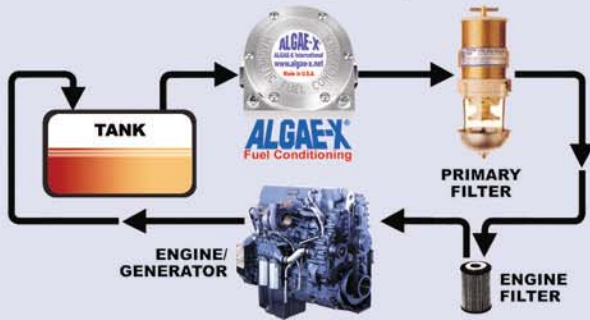
ALGAE-X® Series



LG-X MODEL *	200	400	500	1000	1500	3000	4000	5000
Port Size	1/4"	3/8"	1/2"	1/2"	3/4"	1"	1 - 1/2"	2"
Max flow rate** (gph)	25	90		350		800	1500	2500
Weight lbs.	1	2		3.5		7.5	32	35
HP range (up to)	200	500		1500		3000	3000 and up	

*Larger capacity equipment for higher flow rates is available
Material: Anodized Marine Grade corrosion resistant 6061 Aluminum

** Max recommended flow capacity for engine applications. For recirculating systems double the indicated flow rate.



Made in the U.S.A.

Lifetime Warranty

Call **ALGAE-X®** before cleaning your tanks or replacing your fuel

Distributed by:

Critical Fuel Technology, Inc.

PO Box 395, Madison Lake, MN 56063 Phone 507-995-0070 Fax 507-243-3595

www.criticalfueltech.com

Every Diesel Engine Needs **ALGAE-X®**

MFC Technology...successfully applied world wide for over twenty years