Ωmega®
The Ultimate Lubricant

903

OMEGA 903 Super Diesel Additive

Super Diesel Additive

TRUST OMEGA TO

Save Money
Enhance Performance
Extend Service Life

- *Increases mileage while boosting horsepower – saves you money!*
- *Improves fuel storage stability – biocide formulation eliminates sludging tendency.*
- *Provides cleaner, more efficient engines – reduces annoying smoke exhaust.*

ITW PERFORMANCE POLYMERS & FLUIDS®
KOREA

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SPECIAL FEATURES

Omega 903 Super Diesel Additive is quality formulated to improve combustion of diesel engines while extending the intervals between routine engine maintenance.

- **Omega 903** significantly increases mileage while boosting horsepower to save you money.
- **Omega 903** improves fuel storage stability – biocide formulation eliminates sludging tendency of diesel fuel.
- **Omega 903** provides cleaner, more efficient engines – reduces annoying smoke exhaust.

OUTSTANDING PROPERTIES

Omega 903 is the super diesel additive that:

- Extends the service life of fuel injectors.
- Keeps injector clean for complete combustion and optimum fuel economy.
- Reduces wear in ring belt areas.
- Dispenses completely in bulk diesel fuel.

USE FOR

Omega 903 is formulated to get rid of the residues in diesel that clog filters and retards the vital flow of fuel. **Omega 903** keeps engines operating up to three times as long between maintenance intervals. This super additive keeps filters, pumps, tanks and injectors amazingly clean.

Omega 903 restores and revitalizes sluggish injector equipment. A "clean-out shot" treatment completely removes accumulated sludge deposits and restores injectors to peak condition.

Use **Omega 903** confidently with all diesel engines.

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DESCRIPTION:

Omega 903 is a diesel oil additive that compensates for inherently unsatisfactory diesel engine operation, keeps diesels operating for extended periods, cleans out the injector system, and prevents harmful sludge from accumulating in vehicle and fuel storage tanks.

PROBLEMS INHERENT TO DIESEL OPERATION:

Diesel engines are very sensitive to the quality of fuel they use in terms of flexibility and power output. The use of unstable fuel formulations can cause gumming up problems that block filters, pumps and injectors and lead to complete breakdown of machinery within a very short period of service life.

Diesel oil is widely available to the industrial user, but unfortunately, there is nothing the user can do a carefully check that only a high quality diesel oil is supplied.

A low quality diesel fuel quickly clogs injectors, gums up crankcases and filters, and leads to uneven and unbalanced power compression strokes. If the situation is allowed to continue indefinitely, the resultant engine damage can lead to sheared crankshafts, bent rods, scored cylinders and cracked pistons.

HOW OMEGA 903 WORKS:

Omega 903's ashless detergent additives, when added to diesel fuel, resist the formation of gumming and residues. This preventative action helps prevent injector tips, inlet and exhaust valves, and filters from becoming clogged.

This residue-resistant action enables the diesel injector to function properly at all times and Omega 903 continues to clean the engine as it operates, to ensure optimum performance at all times.

Omega 903 also contains an advanced olefin corrosion inhibitor which acts by "plating" engine parts with a micronized lubricant film that is impervious to high temperature and adheres to metallized parts. This "lubrication plating" action protects the engine parts from the effects of oxidation (rusting) and provides for slippery, friction free surfaces.

This dual "plating" and "friction-reducing" function of Omega 903 gives diesel engines unparalleled protection from the effects of fuel-line by-product corrosion action, and ensures superior friction-free lubricity to improve parts life.

DOWNTIME PREVENTER:

The diesel engine has an inherently long service life due to its robust design and compression properties. However, in many instances, maintenance and adjustment downtime can be enormous as these engines are normally running at 80-90% power capacity at most times. Omega 903, added to the diesel fuel can reduce downtime due to injector clogging, filter changing, engine sludge and varnish build-up removal, and engine breakdown, by preventing the causes at the outset.

Many diesel operators have to work in not less that perfect conditions of tough climatic environment, unavailability of premium diesel fuel, lack of spare parts, minimal maintenance and repair facilities, lack of trained personnel and prolonged equipment operating time. Engine maintenance in such circumstances is normally stretched to maximum limits or equipment is kept operating until breakdown occurs.

Omega 903 can improve production time by preventing diesel engine breakdowns, through regular use. Omega 903. can eliminate many instances of maintenance downtime by ensuring engine

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cleanliness. Omega 903 can save diesel fuel and improve engine power. Omega 903 protects engine parts. In independent tests, Omega 903 diesel fuel additive has stretched diesel engine maintenance intervals by up to 3 times without detrimental effects.

HOW TO APPLY:

TYPE USE	TREATMENT DOSAGE
Bulk Storage:	1 part Omega 903 to 1,500 parts diesel fuel.
'One Shot' Improvement:	2-3 parts Omega 903 to 2,000 parts diesel fuel.

OMEGA 903 AS A FUEL OIL ADDITIVE:

Omega 903 is also ideal for use as a multi-purpose fuel oil additive for the treatment of industrial bulk fuel oils – including bunker oils, heating oils, burner oils and diesel oils.

When added to the fuel oil in storage tanks, special additives in Omega 903 prevent the precipitation and separation of the residue (polymerization) of the parent oil and all the fuel oil is, therefore, useable. This polymerization preventing action gives the fuel oil a higher BTU value compared to untreated oils where sludge separation occurs. Omega 903 can reduce fuel requirements at given steam loads.

Omega 903 contains detergents and dispersant compounds that enable the treated fuel oil to burn thoroughly. Burners remain clean and the need for burner cleaning is much reduced. Settings can be maintained for maximum efficiency with the resultant increase in combustion efficiency.

The special corrosion inhibitors in Omega 903 are effective in both oil and water phase. Corrosion caused by the hygroscopic (water absorption) tendency of fuel oils is prevented and Omega 903 forms a corrosion-resistant film on the contact surfaces of the fuel oil storage tank and the equipment through which the treated oil is pumped.

HOW TO APPLY:

The dosage of Omega 903 varies with the grade of fuel oil being used.

1. **DISTILLATES (No. 2, Diesel Oil, and similar):**
   1 gallon of Omega 903 added to every 3,500 gallons of fuel oil (1 litre per 3,500 litres).
2. **RESIDUES (No. 6 Heavy Oils, etc):**
   2 to 8 gallons of Omega 903 added to every per 3,500 gallons of fuel oil (2 to 8 litres per 3,500 litre.)

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