



FUEL PURIFIER SPAIN



Protect Your Engine



YOUR DIESEL ENGINE IS AT RISK

Bio-Diesel and Water

Fuel legislation designed to reduce harmful emissions and increasing global demand for diesel has resulted in more and more bio-diesel finding its way into the fuel supply chain. The increased use of bio-diesel increases the incidence of water contamination problems in diesel.

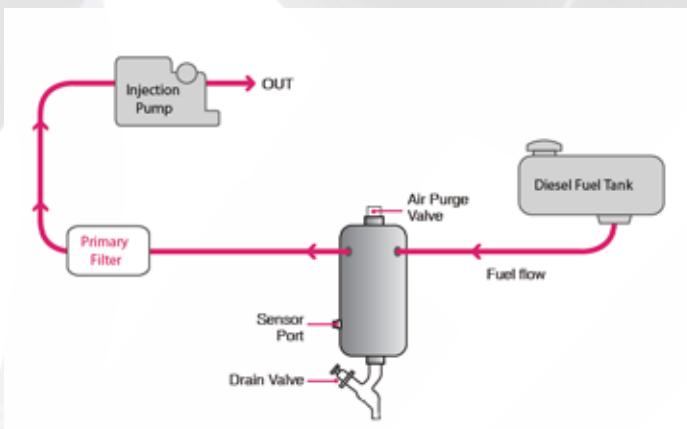
Why? Bio-diesel contains more water than petro-diesel (it is introduced in the production process), it is also hygroscopic which means it absorbs water from the atmosphere.

Petro-diesel can absorb around 50 parts per million (ppm) of water whilst bio-diesel can absorb as much as 1500ppm most global fuel standards recommend a maximum water content of 200ppm.

As ambient temperatures rise water is absorbed into the fuel, as they fall the water condenses out of the fuel and forms free water. Free water can wreak havoc in your fuel system, this water subsequently accumulates and sinks to the bottom of the tank creating an ideal environment for the growth of "fuel bugs".

There are known to be over 20 species of fuel bugs that can contaminate your fuel storage tank, including the most common *Cladisporium resinae*. Fungal infestation can 'spoil' the fuel when the sludge and residue is drawn into the engine, which quickly clogs conventional cartridge filters, causing loss of power, narrowing fuel lines and eventually leading to engine breakdown.

SO WHAT'S THE SOLUTION?



How the MLS Fuel Purifier works

When the fuel enters the unit the baffles in the system immediately induce a swirling action, which causes water and solid contaminants to separate out of the fuel. The contaminants sink to the base of the unit where they are retained - the contaminants are simply drained and disposed of when the system is full.

An optional sensor can be supplied to indicate this. The sensor can be linked to a dashboard or operations panel or further to the MLS communication systems so that drain requirements can be identified from any PC, globally.

The MLS Fuel Purifier will remove water and solid particulates from even the dirtiest, most contaminated fuel.



Keeping your diesel fuel free from water and other contamination is fundamental to the life of the engine and your equipment.

How good is the quality of the fuel being used in your equipment?

If you are hiring out generators, pumps or plant, can you be sure of the condition of the fuel going into your equipment? If you are using fuel provided to you on site, can you see that it is contaminated? Poor fuel storage, bad fuel transfer and housekeeping practices, or simple human error, can easily result in water, sand, grit, rust etc in fuel, all of these can harm your engine.

If you cannot be sure of the quality of the fuel going into your tractors, excavators, generators or pumps the engines that power them could be at risk and you could end up with expensive repairs and downtime. By fitting extra levels of protection on your vehicle or equipment you can reduce the risk of costly damage due to contaminated fuel. The MLS Fuel Purifier will remove water and solid particulates from even the dirtiest, most contaminated fuel. When fitted in conjunction with a conventional fuel water separator, they will work together to ensure that your engine is protected from harmful water and particles.

The MLS Fuel Purifier acts as the 'first line of defence' removing traces of water and dirt, sludge and grit allowing the filter/separator to filter the fuel unhindered.

Contaminated fuel can be incredibly damaging to diesel engines, especially those fitted with the latest generation of high pressure fuel injection systems.

Water is especially troubling as it will cause serious performance and reliability problems.



Suitable for any diesel equipment and fitted to heavy plant, generators, marine environment, agricultural, domestic and industrial buildings.



CONTAMINANTS IN YOUR FUEL CAN CAUSE CONSIDERABLE DAMAGE TO YOUR ENGINE

Engine misfiring and lower power input	Fuel injectors can get clogged and fuel delivery and injector spray patterns are affected
Wear to fuel injector and pumps	Water is a very poor lubricant and metal on metal contact occurs resulting in scuffing and wear
Corrosion of fuel system and engine parts	Steel components will rust in the presence of water
Explosive damage to fuel injectors	The combustion process will superheat any water present which can cause injector tips to be 'blown off'
Acceleration of fuel oxidisation	The oxygen in water acts to speed up the process of fuel deterioration

The MLS Fuel Purifier provides major benefits for all types of diesel engines while protecting the environment from harmful emissions.

Avoid fuel/water related breakdowns and receive cleaner engine combustion.

Remove solid/semi solid contaminants such as dirt, rust and sludge which significantly extends the life of the standard engine fuel filter.

Maintain exhaust emission standards Save on paper consumables as the Fuel Purifier is filterless.

Extend engine rebuild period and life with fewer unscheduled repairs and call outs.

PRODUCT RANGE



UNIT
MFP2

DESCRIPTION

For engines with a fuel pump flow rate of up to 1.9 litres per minute. Maximum engine size of 150 HP. See manufacturers pump specification for confirmation.

DIMENSIONS

MFP2 - 70mm Dia. x 170mm long



UNIT
MFP6

DESCRIPTION

For engines with a fuel pump flow rate of up to 6 litres per minute. Maximum engine size of 300 HP. See manufacturers pump specification for confirmation.

DIMENSIONS

MFP6 - 115mm Dia. x 200mm long



UNIT
MFP10

DESCRIPTION

For engines with a fuel pump flow rate of up to 10 litres per minute. Maximum engine size of 650 HP. See manufacturers pump specification for confirmation.

DIMENSIONS

MFP10 - 115mm Dia. x 320mm long