

# HYDRA DPB-100



Diesel Power Blast Fuel Additive



**HYDRA®**

## Features & Advantages

- ◆ Improves fuel economy by up to 10%.
- ◆ Cleans & protects fuel injectors.
- ◆ Boosts fuel cetane by up to 5 numbers.
- ◆ Maximum fuel burn efficiency - more power.
- ◆ Reduces diesel engine exhaust emissions.
- ◆ Reduces diesel smoke, odour & exhaust soot.
- ◆ Cleans & protects against formation of gums.
- ◆ Prevents water corrosion damage to injectors and metal components in fuel system.
- ◆ Reduces all harmful emissions including:
- ◆ Reduces CO<sub>2</sub>, NO<sub>x</sub>, THC, NMHC, CO, PM.
- ◆ Immediate payback from day 1.
- ◆ Dose rate 1 litre treats 1,500 litres diesel fuel.

## The Problem

In modern diesel engines the injector orifice size are much smaller and manufactured to tighter tolerances than in the past.

This means that even a small deposit build-up inside the injector can interfere with the correct spray pattern resulting in fuel wastage and higher emissions due to unburnt fuel leaving the engine. These deposits can start as early as 2,000 miles in a new engine.



Also diesel fuels with Cetane numbers lower than minimum engine requirements can cause rough engine operation. They are more difficult to start, especially in cold weather.

Many low Cetane fuels also increase engine deposits resulting in more smoke, increased exhaust emissions and greater engine wear.

Diesel engines can produce black soot or more specifically diesel particulate matter from their exhaust. The black smoke consists of carbon compounds that have not burned because of local low temperatures when the fuel is not fully atomised.

These local low temperatures occur at the cylinder walls, and at the surface of large droplets of fuel. At these areas where it is relatively cold, the mixture is rich (contrary to the overall mixture which is lean).

The rich mixture has less air to burn and some of the fuel turns into a carbon deposit.



The introduction of biodiesel, being more hygroscopic than petroleum based diesel, brings its own instability issues into the fuel mix.

Using fuels which meet engine operating requirements will improve cold starting, reduce smoke during start-up, improve fuel economy, reduce exhaust emissions, improve engine durability, reduce noise and vibration.

The largest environmental aspect and impact that all companies have is the fuel that they use.

Consumption of this fuel leads to harmful emissions such as CO<sub>2</sub>, NO<sub>x</sub>. Within the European Union, road transport is responsible for about 20% of all CO<sub>2</sub> emissions, with passenger cars and vans contributing about 15%.

Emissions of nitrogen oxides (NO<sub>x</sub>), total hydrocarbon (THC), non-methane hydrocarbons (NMHC), carbon monoxide (CO) and particulate matter (PM) are regulated for most vehicle types. Modern engines are much better but still not perfect.

Many companies have or are trying to achieve the Environmental ISO14001 accreditation, which once achieved - demands continuing improvement in reducing environmental impacts each year.

This proves to be a constant challenge to many companies, obviously a reduction in fuel consumption readily achieves this environmental impact as well as saving money.

## Description

### POWERFUL DETERGENTS

The powerful detergents in Hydra DPB-100 prevents the formation of and also removes existing deposits caused by fuel decomposition and unburnt fuel.

These deposits interfere with the performance of your diesel engine.



### OPTIMAL INJECTOR SPRAY PATTERN

Modern high pressure direct injection engines use precise fuel metering through narrow shaped spray channels.

Injector deposits mean uneven fuel flow. 100% clean injectors give optimal fuel spray pattern, resulting in a very finely atomised spray.



This means that each finely dispersed particle of fuel is surrounded by many molecules of air (20% oxygen) ensuring a more complete burn.

This in turn gives you much better fuel economy, as all of the fuel is burnt, reducing emissions and improving engine durability.

By reducing soot formation Hydra Diesel Power Blast also helps keep the diesel exhaust gas return valves clean.

As supplied in Europe, where many companies are using it daily. Fuel treated with this package still meets the EN 590:2009 EU specification for diesel fuel.

### INCREASED LUBRICITY



Hydra DPB-100 also contains lubricity improvers that decrease fuel pump wear issues. These lubricants work in very cold climates and do not raise the sulphur level of treated fuel.

Test results give HFRR Wear Profile of less than 300. Our lubricants also reduce the friction in the cylinder thereby improving the coefficient of friction helping fuel economy. Hydra Diesel Power Blast protects your valuable fuel systems, prevents engine malfunction and engine failures.

All our products are manufactured to the highest International Specifications at our UK plant.

This plant is accredited to ISO 9001:2008, ISO 14001:2004 and ISO 45001:2007 ensuring that EN 590:2009 fuel quality standard is always adhered to.

Breakeven point on fuel savings against cost of product is less than 1%. This means when your fuel consumption is reduced by more than 1% the product is not an additional cost, but is giving you massive cost savings.

1 litre Hydra DPB-100 treats 1,500 litres of diesel fuel (use at 1:1,000 in first tank of fuel, available in different pack sizes for ease of use, simply add to fuel when filling up).

Can be added before or after refuelling.



## Customer Reviews

### ★★★★★ I Can Thoroughly Recommend This Product And Can Testify To The Manufacturers Claims

By *Robert* Wednesday, 12 April 2017

Sceptical about any fuel additives in the past, so tended to disbelieve manufacturers claims relating to increased power and more MPG's. I was under the impression that once a fuel is manufactured the end result could not be changed;

I am currently running a French 1.6 HDI engine with a mileage over 150K with the addition of a tuning chip which incidentally has increased both MPG and power!!!

Decided to give this product a try to prove my theory of manufacturers claims.

The additive arrived very quickly and was well packaged for transportation. Also within the packaging was a detailed guide on using the additive and other products manufactured by this company.

As per instructions I added the slightly richer mix of the additive for the first fill up and waited with bated breath to prove my theory!!!!!!

Getting towards the end of the tankful and 500 miles driving in all conditions I could actually truthfully feel a difference both in power, fuel economy and the engines smoothness and its willing to rev. Now on my second tank at the reduced dilution rate, the vehicle is still increasing in MPG's and power!!!

So as you can see from my blog and being the most difficult of beings to believe without proof!. I'm converted!!!!

I can thoroughly recommend this product and can testify to the manufacturers claims relating to increased power, more MPG's and engine smoothness and willing to rev.

I shall be using this additive at each and every fill up.

Many thanks to HYDRA!!!!

### ★★★★★ Runs Soother

By *Peter* Saturday, 12 November 2016

I have an old Yanmar marine diesel engine and my mechanic highly recommended this product to keep the tank and injectors clean and to help the fuel maintain its cetane levels.

My mechanic swore that this product would help the combustion process and help cutdown on any diesel smoke that the engine produces.

I have to say that after a year of adding this product to my fuel, it performs as he stated. No diesel smoke, clean fuel, clean filters and the engine cranks up quicker and runs smoother. This will be a regular item I'll have on board from now on.

Runs Smoother. My Yanmar 1GM10 seems to run more smoothly and now get almost no carbon deposits on transom from exhaust my range has been extended by about 8%.

### ★★★★★ Performance Increased

By *Bob* Thursday, 25 May 2017

My experience with two trucks and various trials is that soot, odour and smoke are all substantially reduced when using this additive. Also performance is increased, as a performance-enhancing diesel additive for use at every fill-up, this just can't be beat. I'm very pleased.

### ★★★★★ Stood Up to Claims

By *Scott* Sunday, 04 December 2016

We did some trials with our fleet and this product has totally stood up to what it claims to do. We are already noticing a massive reduction in fuel consumption, diesel odours and soot. Well worth the money considering that 1 litre bottle treats up to 1,500L

### ★★★★★ Remarkable Difference

By *Harriet* Friday, 10 March 2017

We used it in our Wilson 20.0 KVA diesel generator, REMARKABLE difference in fuel consumption. A+++++ Product.

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