

# Protect Your Equipment



## The Fuel Polishing Buggy



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

Diesel fuel, when bulk stored for extended periods, can easily become contaminated with any number of foreign bodies from water and dirt to airborne microbes – many oil companies now recommend that stored diesel fuel is cleaned on a regular basis.



The DS Activity Fuel Polishing Buggy removes water and solid contamination ensuring your fuel remains 'clean and dry'.

### 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? Is your hire fleet being returned to you with contaminated fuel? Are you storing fuel which could become tainted?

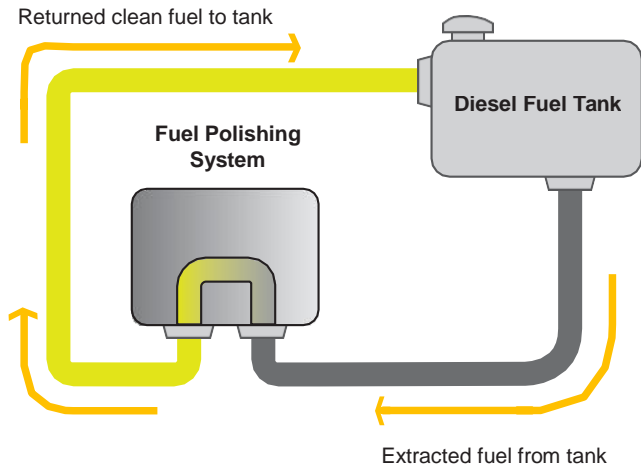
Poor fuel storage, bad fuel transfer and housekeeping practices, or simple human error, can easily result in water, sand, grit, rust etc in fuel, all of these can harm your engine. If poor quality fuel is going into your generators, pumps, excavators, boats or tractors the engines that power them could be at risk and you could end up with expensive repairs and downtime. By regularly polishing your fuel you maintain its quality by removing the water and particles that are harmful to engines and fuel systems.



### Mobile Fuel Polishing Buggies

DSA Fuel Polishing Buggies are lightweight mobile units designed for on-site cleaning of diesel fuel being held in tanks, bowsers and drums. The buggy incorporates a state-of-the-art fuel filter/separator element to remove potentially damaging particulate contamination and water from the diesel. The diesel fuel is pumped from the storage tank and 'polished' removing virtually 100% of water and all particles down to 5 micron before returning back to the tank, eliminating the expense of totally removing or replacing the fuel.





## Major benefits of DS Activity mobile fuel polishing:

- Lightweight and easily moved from location to location
- Filters fuel quickly with a high flow rate
- Easy to use and 'foolproof' in functionality
- Easily and tidily stored when not in use
- Reliable and consistent fuel filtration to prevent engine failure
- Reduction in down time and associated call-out charges
- Save money by avoiding wastage of contaminated fuel
- Standard unit comes supplied with a 25 micron filter
- Replacement filter elements are available in 5, 10 and 25 microns

## Other products from DS Activity Fuel Conditioning:

### Predator™ 8000 fuel biocide

Predator 8000 is a broad-spectrum fuel biocide suitable for treatment and prevention of microbial growth in fuel tanks and systems. Suitable for diesel (including bio-diesel blends), FAME, Gas Oil and Residual Fuel Oils.



### Diesel Defence fuel polishing systems

Diesel Defence static skid or 'on tank' mounted fuel polishing systems are also available from Diesel Service to preserve fuel quality in large fixed fuel storage tanks. These fuel polishing units function on a 'stand alone' basis, can be set to run to a 7 day timer and are ideal for keeping fuel 'clean and dry' in unmanned facilities such as standby generator sets, diesel fire pumps etc. We can even design and manufacture bespoke systems specific to your requirements.



## What customers say

“We use the DS Activity Fuel Polishing Buggy to clean the fuel in our fleet of rental generator sets when they return from hire at our customers. We have made considerable savings by re-using fuel that would previously have been disposed of and, by ensuring that only clean, dry fuel is used in our generator fleet, we are improving reliability and reducing unscheduled maintenance and breakdowns.”

**Brian Cosheril**  
National Service Manager, Progress Group



## Fuel polishing FAQ's

**What is fuel polishing?** Fuel polishing is the process of removing water and particulates from fuel to ensure that the fuel quality remains in-line with fuel specifications. Ideally, fuel should have an ISO particle code of 18/16/13 and a dissolved water content no greater than 200 parts per million. There should be no free or emulsified water present.

**How often should fuel be polished?** If you have standing fuel, and if no 'on tank' fuel polishing system is fitted, then it's recommended that fuel should be polished every 6 months. When doing so, where fuel is being drawn from and returned to the same tank, the entire volume of the fuel should be run through the polishing system 4 or 5 times to ensure that all contamination is removed. If transferring fuel to another holding tank, one pass through the polishing system is sufficient.

**Will fuel polishing remove all fuel tank contamination?** Fuel polishing will remove free and emulsified water as well as solid particles (size dependent upon the filter element being used). If there is microbial contamination in the tank any free floating biomass will be removed. However, if the tank is badly contaminated and a biofilm has formed – a biofilm is a colony of microbes that have adhered to the tank surfaces – fuel polishing may be only partially effective. In such instances, tank cleaning will be required.

**Are fuel polishing systems suitable for tank cleaning?** Generally, no. Fuel polishing is designed to maintain the quality of fuel by removing free floating contaminants and emulsified and free water. As mentioned above, fuel tanks can become contaminated by biofilms which cannot be removed by fuel polishing alone. Where a light biofilm is established this can be killed with the application of fuel biocide, where a heavy biofilm is established or there is a heavy layer of sludge in the tank bottom, tank cleaning using abrasive techniques or jetting could be required. Where a biocide is used, ALWAYS cycle the fuel through a fuel polishing system as the biocide will have killed the contamination and could have dislodged chunks of biomass which could block on engine filters.

## Model options

All DS Activity Fuel Polishing Buggies come with a high flow rate (50 liters per minute) pump, filter block alarm, water drain alarm, quick release couplings and 110V or 240V options. Units are supplied with 3 meters inlet and outlet hoses and a 5 meters power cable with longer hoses and cables available on request. Bespoke mobile fuel polishing units can also be supplied to your own specification.



*Protect your engine*

**DS Activity S.A.**

Rue du Roua 70, 4140 Sprimont

Phone: +32 (0) 4 285 89 65

Fax: +32 (0) 367 16 66

Email: [info@diesel-service.be](mailto:info@diesel-service.be)

[www.diesel-service.be](http://www.diesel-service.be)