



CJC[®] Fuel Polisher

for Backup Generators & Gensets



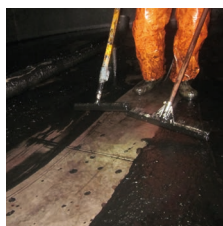
Your partner for
power & data safety



Do you have Dirty Diesel?

What are the consequences of dirty diesel?

- High consumption of in-line filters
= frequent in-line fuel filter saturation due to low dirt holding capacity
- Diesel pest/microbes, micro pitting and wear
= water in diesel
- Wear on fuel pump, needle valves and injectors
= particle abrasion
- Damaged components
= ineffective combustion and fuel dilution of oil
- Corrosion
= due to water that produces abrasive rust which wears on surfaces, block clearances and break off to damage moving parts
- Cavitations in fuel pumps
= water droplets collapse under pressure in the pump, producing high forces which “eats away” the metal (micro-pitting)
- Wear on fuel valves & injectors
= the high velocity through injectors creates “blasting” with water droplets and the high pressure makes water implosions (cavitations) resulting in high wear rates
- Instant block of a fuel valve, injector or in-line filter
= due to microbial growth, also called diesel bugs/pest
- Other negative consequences
= steel tank damage/corrosion, foul odours, human health problems, biomass slimes, manual tank cleaning is required



Dirty diesel fuel tank being cleaned before new diesel is introduced



Poor injector spray pattern, from worn injector (photo taken with a microscope at nozzle point)



Wear on injector



Optimum Reliability with CJC® Fuel Polisher

Contaminated diesel is one of the main issues on backup generators

Storing diesel and biodiesel over time, decreases the oil quality in the tank. Contaminated diesel containing water, microbes and particles can cause damage to fuel pumps and injectors, resulting in breakdowns of the backup system.

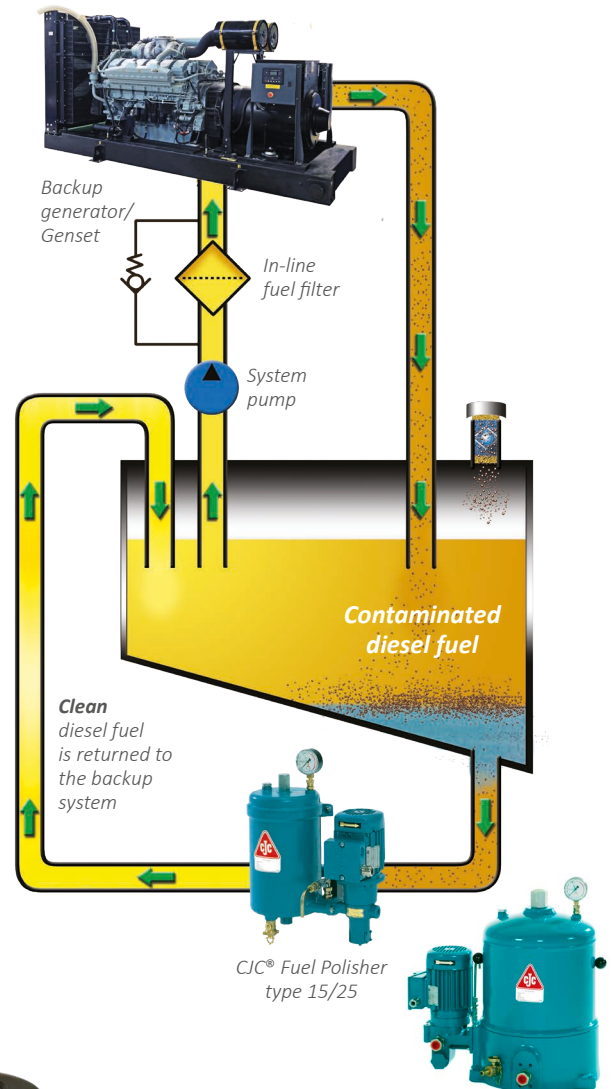
Today, the standard procedure is taking oil samples to verify the fuel quality. In case the diesel fuel is highly contaminated, it is discarded, as consequences of using contaminated diesel fuel is too expensive, due to the risk of generator breakdown or start-up malfunctions.

But the fact is - contaminated diesel can be cleaned!

By installing a CJC® Fuel Polisher on the tank, you no longer need to discard diesel fuel due to high water level, diesel pest or particles, as the filter continuously cleans the diesel fuel.

Using the cellulose based CJC® Filter Inserts, with a filtration degree of 3 micron absolute and a very high dirt holding capacity, the filter capture and blocks water, sludge/diesel pest and particles.

The risk of microbial growth is minimized, as the CJC® Fuel Polisher continuously filters on the tank, keeping water level under 100 ppm in the diesel fuel, thus ensuring that polished high-quality fuel is always used in the generator.



*Diesel fuel,
contaminated
with microbes
and water*



*Diesel fuel,
clean*



*Industrial storage tank
diesel fuel
before and after
CJC® Fuel Filtration*

*CJC® Fuel Polisher
type HDU 27/27*

Your benefits with Clean Diesel?

Results of installing a CJC[®] Fuel Polisher on your diesel tank

- Clean diesel fuel
- Less wear on pumps and injection valves
- Less consumption on fuel in-line filters
- Reduced maintenance time & costs
- No discarding of diesel fuel
- Avoid breakdowns
- Increased lifetime of generator and tank
- Safe start-ups & operation

CJC[®] cleanliness specifications:

- **Particles**
3µm absolute:
98.7% of all solid particles > 3 µm
2-4 ltr contamination holding capacity
- **Water**
The water absorption potential is up to 50% of the total contaminant holding capacity.
Removing water to < 100ppm in diesel
- **Bacteria**
With less than 100 ppm water content, microbial growth is minimized and furthermore, captured by the filter insert media



*CJC[®] Filter Insert
A 15/25*

*CJC[®] Filter Insert
A 27/27*

Avoid breakdowns of your diesel backup generator with CJC[®] Fuel Polisher

C.C.JENSEN - contact us today!



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