

Winter Operational Emergency Procedures



Water Separators in Severe Cold Climates:

It is much more difficult for cold diesel fuel to flow through a water separator than a standard spin-on fuel filter. **For this reason, Power Service recommends that you use a 30 micron (filter elements are available in 2, 10, & 30 micron sizes) water separator fuel filter element in sub-zero temperatures. If you cannot find a 30 micron filter, remove the filter element from your water separator & use only the engine spin-on filters.**

If You Are Using Power Service Diesel Fuel Supplement +Cetane Boost & the Diesel Fuel is Liquid in the Fuel Tanks, but the Engine Will Not Start:

This indicates plugged fuel filters or fuel filter icing. To solve this problem, remove the spin-on fuel filters, pour out ice & wax mixture & refill with a **50/50 mixture of Power Service Diesel 9-1-1 & diesel fuel.** Reinstall the fuel filters & start the engine.

If You Delay Fuel Treatment Until Fuel Has Already Gelled in the Equipment Fuel Tanks:

Reliquefy the diesel fuel by adding one 96-ounce container of Diesel 9-1-1 to each 100 gallons of diesel fuel in the equipment tanks. Remove & empty the fuel filters. **Fill the filters with a 50/50 mixture of Diesel 9-1-1 & diesel fuel (no need to change filter elements).** Reinstall fuel filters. **Start your engine!** To protect against gelling after reliquefaction, add Power Service Diesel Fuel Supplement +Cetane Boost to your equipment fuel tanks at the ratio of one quart to each 100 gallons of diesel fuel.

Diesel Fuel Supplement +Cetane Boost is Compatible with Diesel 9-1-1 When Added to Diesel Fuel.

DIESEL FUEL SUPPLEMENT
+ CETANE BOOST

Effectively Treats ULSD and Biodiesel Blends up to 20% (B20)



Ultra Low Sulfur Diesel (ULSD) Antigel Formula for Power Service Diesel Fuel Supplement +Cetane Boost®!

POWER SERVICE PS
Diesel Additives

WINTERIZED

Prevents fuel gelling in temperatures as low as -40°F. Equals the performance of a 50/50 blend of No. 2 & No. 1 diesel fuels.

+ CETANE BOOST

Boosts cetane up to 4 numbers - cetane is a powerful energy compound that provides faster cold starts, smoother & quieter engine operation with more power, less smoke & decreased fuel consumption from 4 to 8%.

SLICK DIESEL

Protects fuel injectors & pumps against accelerated wear from Low & Ultra Low Sulfur Diesel (ULSD) fuels - meets the NEW HFRR 520 Lubricity Specifications for the United States & the more stringent European Specification of 460 in most fuels.

Special

DETERGENT PACKAGE

Keeps injectors clean - reduces emissions & black exhaust smoke.

P/N	Pack	Treats
<i>Treat Ratio 1:400</i>		
01016-06	16 Oz.	35 Gallons
01025-12	32 Oz.	100 Gallons
01041-04	96 Oz.	300 Gallons
<i>Treat Ratio 1:1500</i>		
01050-02	2.5 Gal.	3,750 Gallons
01055-01	55 Gal. Drum	82,500 Gallons

DIESEL 9-1-1
For Diesel Emergencies

Ultra Low Sulfur Diesel (ULSD) is Here & Your Customers Will Need Power Service Diesel 911® to Keep Their Trucks Running at Top Performance!

POWER SERVICE PS
Diesel Additives



- 1 Reliquefies Gelled Fuel
- 2 De-Ices Frozen Fuel Filters
- 3 Removes Water
- 4 **SLICK DIESEL**

Protects fuel injectors & pumps against accelerated wear from Low & Ultra Low Sulfur Diesel (ULSD) fuels - meets the NEW HFRR 520 Lubricity Specifications for the United States & the more stringent European Specification of 460 in most fuels.

P/N	Pack	Treats
<i>Treat Ratio 1:400</i>		
08025-12	32 Oz.	30-75 Gallons
08041-04	96 Oz.	100-200 Gallons

ULSD APPROVED!



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Central Parts & Supply of Hawarden, Inc.

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Frequently Asked Questions about ULSD and Biodiesel Additives

When will we start getting Ultra Low Sulfur Diesel Fuel? You have been getting the ULSD for the past two weeks if not earlier.

What is the best way to get my tank ready for winter. It is very important to start with a clean tank. Best way to make sure its clean is to treat with Penray's Fuel Prep.

Will my existing stock of Penray additives work in the ULSD or do I have to buy all new? The old product will work with the ULSD.

People are saying ULSD needs a cetane boost, true? The ULSD and Biodiesel actually have a higher cetane than the fuels we had last winter.

Will Ultra Low Sulfur Kerosene (ULSK) be available? ULSK will be hard to find and very expensive, \$.15 to \$.20 per gallon more.

We switch from Biodiesel to regular ULSD depending on the price.

Which Penray product do I use? Do I need to stock both? Penray Bioready winter fuel additives works very well with both fuels.

What happens if I get a load of Biodiesel when I have been using the regular Penray additives? They will still work very well with Biodiesel however the Bioready products are optimized for biofuel.

Do I need an extra lubricity additive in my ULSD? No the new fuels have lubricity additive already in them. Actually higher than the old fuels.

Will the old additive add to much Sulfur to the ULSD? Will I be in trouble? Most previous Penray additives did not contain any sulfur. In the rare exception they could contain up to 200ppm sulfur. If that were mixed with ULSD it would add much less than 1ppm sulfur to the fuel.