

## CASE STUDY CBC TORONTO

### THE CHALLENGE

CBC/Radio-Canada is the nation's largest public broadcaster. They stake their reputation on reflecting Canadian culture and creating a shared experience from coast to coast that is "available how, where, and when Canadians want it," so even short-term broadcast interruptions are unacceptable.

CBC's Toronto-based broadcasting facility relies on reserve fuel from two 20,000-litre tanks to power their generators. The stored diesel had degraded over time, and a test determined that it was unusable in its current state. Discarding the oil and refilling the tanks would have had significant environmental implications and cost approximately \$1.30 per litre (including transportation) – approximately \$52,000.

CBC needed a cost-effective and environmentally sustainable solution, but there was a problem: the fuel tanks were three floors underground and only accessible by elevator.

### OUR SOLUTION

Using alternate fuel management methods would have been complicated given the remote location of the reserve tanks, but Refuel provided a simple solution: our team transported the compact Mobile Fuel Filtration System down three floors, using the building's freight elevator.

Once the system was in place, filtering the fuel took only a few hours.

### CLIENT SAVINGS

Had CBC opted to dispose of the fuel (which has been the industry standard for many years) it would have cost nearly \$52,000, not to mention the environmental waste that would have been created.

**FUEL INTEGRITY  
YOU CAN COUNT ON.  
ANYWHERE.**

[WWW.REFUELSYSTEMS.COM](http://WWW.REFUELSYSTEMS.COM)

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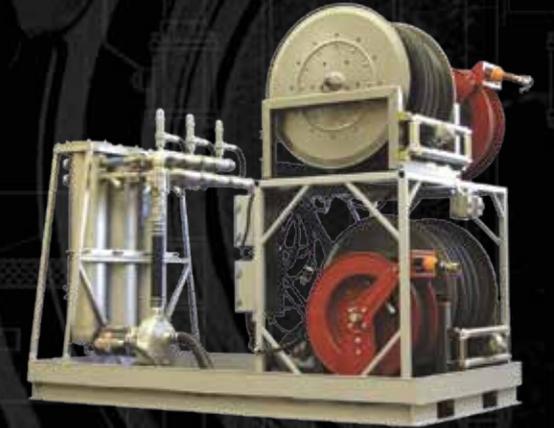
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## RSI-M0140 MOBILE FILTRATION SYSTEM



**STORED DIESEL  
INTEGRITY**

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## FUEL INTEGRITY: IT'S MISSION CRITICAL

If you're a mission critical organization or your operation can't function without emergency back-up power, the integrity of your fuel reserves matters. Why? Dirty fuel is unreliable and can't be trusted to maintain continuous operation of backup power supply when you need it the most. And that's risky business.

It wasn't always this way, but today's diesel fuel degrades at rapid rates. That's because new technologies and environmental pressures have changed the oil-refining sector dramatically. Over the past several decades, we've shifted from high-sulphur diesel fuel that had stored well over long periods of time to low-sulphur fuel that simply isn't designed for long-term storage.

Diesel is considered an organic fuel and like all organics it decays with age. Diesel can be reliably stored for 12 months at an ambient temperature of 20°C (65°F) and 6 to 12 months at 30°C (86°F). Molecules in the fuel lengthen and bond over time creating asphaltines (diesel sludge). Diesel sludge can clog in-line filters and damage critical engine components.

That's why contaminated diesel fuel and dirty fuel tanks are the leading causes of emergency generator failures and warranty defaults.

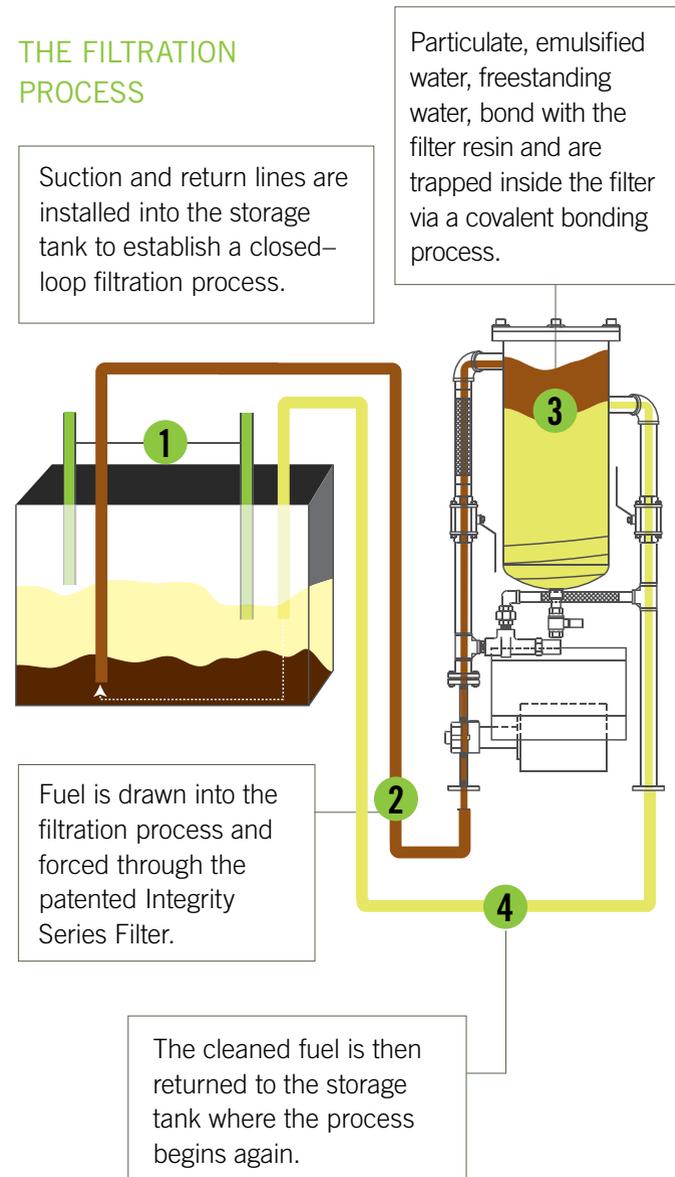
It's also why CSA guidelines require that fuel reserve tanks be tested and the cleaned as required.



## THE REFUEL SOLUTION

Refuel is a leading manufacturer of high-efficiency installed and mobile diesel filtration systems for mission critical, commercial and industrial stored diesel applications. We protect the equipment and systems that protect you in times of crisis.

### THE FILTRATION PROCESS



## RSI –MO140 MOBILE FILTRATION SYSTEMS

### BENEFITS

- A cost-effective method to meet CSA fuel maintenance guidelines.
- Can be deployed anywhere, including confined or hard-to-access locations.
- Can easily be shipped to remote locations.
- Setup in one hour.
- An environmentally-responsible solution.
- Free of carcinogens.

### POTENTIAL USERS

Mobile units are an ideal solution for the following types of organizations or scenarios:

- Remote locations and systems
- Tank replacement
- Fuel reclamation
- Marine vessels
- Emergency and disaster assistance
- Operations with multiple locations
- Budget conscious organizations
- Non-mission critical organizations

### RSI –MO140 SYSTEM SPECS:

- Removes emulsified water from ULSD and bio-blended fuels to below 100ppm

- Filters up to 0.5 microns using Refuel's Integrity Series Filters
- Effective with 1000 liters to 100,000+ liter tanks
- Variable-flow rate capacity capable of 10 – 140 gpm
- 1" and 2" hose options with Camlock connections
- Corrosion-resistant stainless steel construction
- Socket welded connections
- Customizable filter elements
- Onboard independent power source
- Outfitted with prerequisite safety equipment
- Trade certified professional operators

### SYSTEM COMPATIBILITY

Refuel's unique closed-loop Mobile Fuel Filtration Units are compatible with many fuels including:

- Low Sulphur and Ultra Low Sulphur Diesel
- Biodiesel
- Gasoline with up to an E-85 Ethanol rating
- Hydraulic oils
- Lubricating oils

