



## Ambient Water Treatment Consulting, Inc.

Water Treatment Monitoring  
Cooling and Boiler Water Analyses  
Water Treatment Bid Evaluations  
Equipment Inspections  
Pipe Analyses

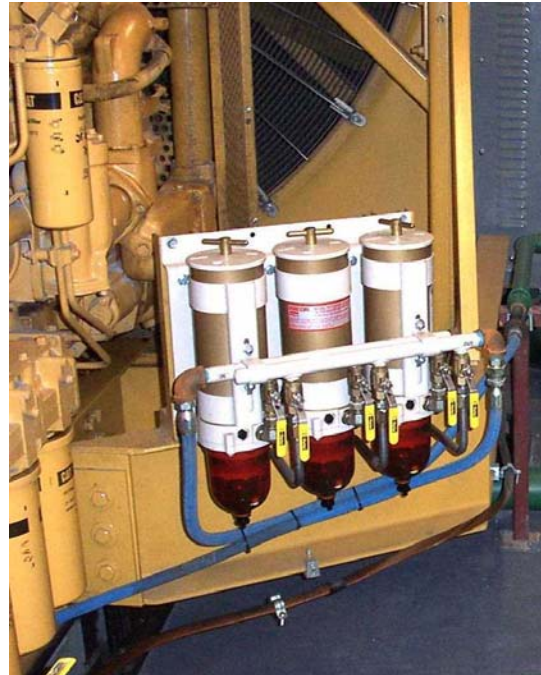
50 Jericho Turnpike  
Suite 108  
Jericho, New York 11753  
Tel: (516) 342-1964  
Fax: (516) 908-6470

## DIESEL GENERATORS: HIDDEN POTENTIAL FOR PROBLEMS

Companies have been gearing up to address potential power dips and outages. A "mission critical" component in a building's defense against power grid problems is the building's standby emergency generator. If standby power is required for an extended run time, good quality fuel is essential to avoid restriction of flow through strainers and filters.

A test run of one to two hours each month is not equivalent to an extended run at full load that may be required if power is interrupted. Oil delivered as far back as ten years ago may still be in the tanks of generators that are only run intermittently. Even recently-delivered oil can have considerable contaminants such as sludge, water, sand, rags and other sediment.

Typically, the main storage tank has no provision for re-circulation; therefore, sediment, sludge and water can accumulate at the bottom near the suction lines. Even a delivery of new fuel can cause problems by stirring up existing sludge that can be pulled into the suction lines. Clogged suction lines and strainers will shut down one or all generators.



To minimize the risk of going off-line due to fuel quality problems, building and facility managers should have the fuel sampled for analysis from the bottom of the main storage tank(s) as well as from the bottom of the day tank(s). Take this step now so that sufficient time is available to pump out old oil and sludge and have the tanks thoroughly cleaned by a qualified contractor if the oil analysis indicates the presence of significant contaminants.



**Ambient Water Treatment Consulting, Inc.**

## **DIESEL GENERATORS: HIDDEN POTENTIAL FOR PROBLEMS**

Routine maintenance will, as always, play an important role. Maintenance professionals are urged to:

- Inspect and clean the fuel strainers and filters regularly.
- Check the operation of duplex strainers by cleaning and operating each strainer.
- Have spare filters available in sufficient quantity to replace each filter twice, keeping spares in close proximity to the engine.

Obtaining oil samples requires specially designed sampling equipment and procedures. A qualified laboratory with field consultants experienced in fuel storage and treatment will help to ensure a good outcome.

**Ambient Water Treatment Consulting, Inc.** offers diesel fuel and lubricating oil analysis as well as sampling services.

**Ambient Water Treatment Consulting, Inc.** is a full-service consulting firm staffed with water treatment professionals who are dedicated to providing you with **unbiased, independent information** on the state of your critical heat-transfer equipment. **We do not sell treatment products.** We perform a variety of testing and inspection services that determine the effectiveness of your existing water treatment program.

Since 1998, we have provided essential services to some of the best-known property management firms in the country, as well as health care facilities, data centers, museums and industrial complexes.

For more information on this subject and for answers to all of your water treatment questions, please visit our website [www.awtconsulting.com](http://www.awtconsulting.com) and/or contact us at:

**Ambient Water Treatment Consulting, Inc.**

50 Jericho Turnpike, Suite 108

Jericho, New York 11753

Voice: (516) 342-1964

Fax: (516) 908-6470

Email: [info@awtconsulting.com](mailto:info@awtconsulting.com)