Heating Oil, In Search of Perfection
Are We There Yet?

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State of the Industry

• National Oil heat Research Alliance, Reauthorization Status
  • Need assurance that financial support for the industry stay’s intact.
  • Provides the guidelines and leadership to align our collective interest
  • Continued collaboration with the National Biodiesel Board

• Bioheat®, Compliments and Completes a 21st Century Fuel
  • Without the renewable component ULSHO, sulfur aside still is carbon.
  • Policy leadership dismisses carbon driven products.
  • Carbon is and has been and will continue to be our Achilles heel without higher blends.

• Ultra Low Sulfur Heating Oil, Benefits & Challenges
  • Levels the playing field with gaseous fuels while higher blends of biodiesel is studied.
  • Reduces service challenges associated with fireside contamination.
  • Provides industry stakeholders a valid, bankable and defendable story why we are relevant and why we will be sustainable.
Mark Stellmach
Share the benefits/challenges of both liquids

• ULSHO/biodiesel, why we need both
  • ULSHO, fire side enhancement, wet side still requires our attention
  • Biodiesel, enables competition with natural gas
  • Collectively empowers the industry to share a positive story

• The diesel markets experiences with ULSD
  • Corrosion prevalent, moisture and microbes notable.

• ULSHO notable challenges and how being proactive will help.
  • Corrosion, microbial contamination, moisture and cold weather
Fuel Quality & Service Costs

Proper tank installation can increase quality and lower service costs

I've recently been involved in several discussions about the quality of fuel. It seems that some people have a misconception about the quality of fuel. This misconception is due to the fact that fuel is a homogeneous substance. However, it is important to note that fuel quality is not uniform throughout a tank. Therefore, it is important to ensure that the fuel is properly stored and handled.

Figure 1

Figure 2

Pitch tank towards the bottom outlet
1/2 inch for each foot of tank length

Why is keeping the water out so important?

Water in fuel tanks leads to fuel degradation and can cause the growth of microorganisms or fungi. This can lead to the formation of corrosion, rust, or other deposits in the tank. To prevent these problems, it is important to keep the water out of the tank.

Figure 3

Figure 4

Keeping water OUT!

Install the proper size tanks.
- NORA recommends 1/2 the annual consumption.
- Follow manufacturer's instructions.
- Install water traps at the top of the tank.
- Check for water in the tank regularly.
- If water is found in the tank, drain it immediately.
- Consider an ongoing fuel maintenance program.

In conclusion, it is important to keep the water out of fuel tanks to ensure proper fuel quality and service costs. If you have any questions or concerns, please contact Indoor Comfort, Inc.

Reference:

Evaluation Sponsored by; The Oilheat Comfort Corporation (OHCC), the NORA-funded affiliate of the Oilheat Institute of Long Island.

- 150 tanks sampled
- 80 Tested positive for bacteria/fungus
- Moisture and microbial contamination, the primary sources of corrosion and fouling should be foremost concern
- Improper tank installations also a concern
- Fuel additives help
Clean Diesel Alliance

Battelle Study

Corrosion in Systems Storing and Dispensing Ultra Low Sulfur Diesel (ULSD), Hypotheses Investigation

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Got Questions, Comments, Input?

Open Discussion