Petroleum and Biodiesel in New England

Where We’ve Been, Where We Are, and Where We Are Going
Petroleum: Where We’ve Been

Americans are accustomed to using petroleum products to run our engines and machines. We pump gasoline into our cars, heat our homes with oil, and fill our trucks, buses and construction equipment with diesel. It’s convenient, it works, and it’s widely available.
ASTM Mandates

The ASTM sets standards for petroleum fuel quality.

States legislate that fuels meet the ASTM standards, ensuring the gasoline, heating oil or diesel fuel is reliable for everyday use.

Consumers may or may not know when fuel standards change, they simply buy what is available from their supplier.
Fuels Change!

- Petroleum Diesel contains sulfur, an environmental pollutant.
- Environmental concern leads to legislation to reduce pollutants.
- Sulfur content in some petroleum fuels has been regulated down from over 3000 ppm to 500 ppm, or even to 15 ppm.
- Consumers simply buy what is available from their supplier.
Response to New Fuel Mandates

- Can’t be done (cite logistics or cost).
- Warn it will cause problems at terminals, tanks, or for end users.
- Public/legislation demands the change.
- The industry adapts, consumers adapt.
- Emissions improve.
- Air quality improves.
Where We Are

Transportation Diesel

- On-Road Use = 15 ppm sulfur (ULSD)
- Off-Road Use = 500 ppm sulfur (LSD)

Federal law requires that your fuel supplier deliver the proper kind of fuel for your application.
Where We Are

Space Heating

Heating Oil may contain up to 3,000 ppm sulfur.
Where We Are Going……

Transportation Diesel

- On-Road = ULSD (15 ppm) How low can you go?
- Off-Road = LSD (500 ppm) This grade is virtually non-existent today. Refiners, transporters, and storage facilities save money by carrying fewer grades. For off-road use, ULSD is used, and is simply dyed to identify it as non-road only.

What this means to you, is that the sulfur content of transportation diesel fuels is quite low, which is good news for air quality.

How can we lower sulfur content even more, and regain lubricity?
Where We Are Going
(Transportation, con’t.) …..

Answer:

**Biodiesel Blends.**

ASTM certified biodiesel blended into petroleum diesel further reduces sulfur, improves lubricity several times over.

What this means to you is reduced engine wear, and increased mileage per gallon!
Where We Are Going…

Space Heating

- The home heating industry is prepared to embrace the green movement!
- We agree to lower the sulfur content in heating oil, same as in transportation diesel.
- We agree, lowering the sulfur content will improve air quality.
- We agree we can solve logistic and storage issues by switching to ULSHO (15 ppm, Ultra-low sulfur heating oil).
BioHeat blends are becoming more available.

- Blended with petroleum heating oil, it reduces greenhouse gas emissions for better air quality.
- A drop-in fuel.
- Requires no updating of heating system to achieve emissions reductions.
Where We Are Going
(Space Heating, con’t.)……

U.S. Oilheat Industry is working to further reduce environmental impact.

- ASTM requirements* for all biodiesel blends
- Cooperative efforts to make a positive impact toward our environmental goals, at attainable production rates, and marketable in an pro-environment and cost-sensitive market.
- Our legislative needs include biodiesel blend mandates on a schedule, ASTM requirements, renewal of the Federal tax incentives to ensure continued expansion of U.S. biodiesel production, and local incentives for biodiesel production and use within our state.

*Already required in CT, but not in all states yet.
Why Legislative Mandates?

Education about environmental issues does not move all consumers.

Many are interested in biodiesel blends hoping only for price relief.

Some distrust ‘new’ fuels.

Mandates set goals, push the industry to change, foster advances in fuel technology.

The consumer will buy what is available from the supplier.

We want to supply a better, cleaner fuel!
Thank you

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