

DENNIS K. BURKE INC.

**LOWER EMISSIONS
AND REGULATORY COMPLIANCE**

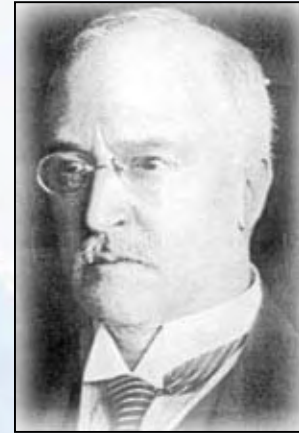
1-800-BUY-BURKE

www.burkeoil.com



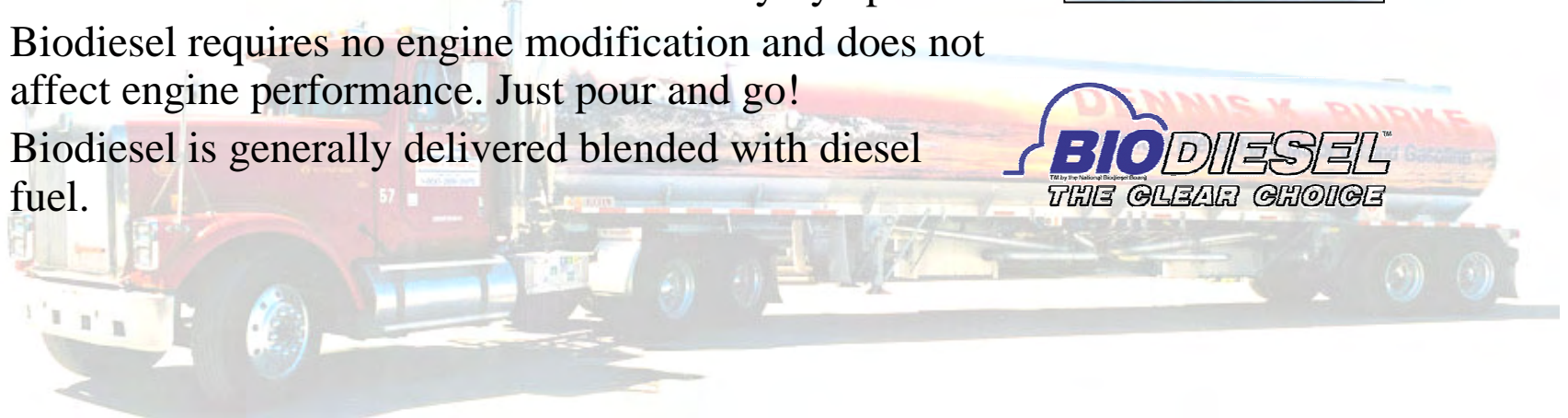
Some interesting facts

- Rudolph Diesel demonstrated the diesel engine at the 1900 Worlds Fair running on Peanut Oil!
- In WWII, the US Government closely looked at biodiesel as an alternative fuel in case our petroleum supply line was cut.
- Over \$90 million has been spent on research, marketing, and production of biodiesel
- Biodiesel used for years and is widely available in Europe
- There is currently enough production to make hundreds of millions of gallons of blended biodiesel in the US
- Biodiesel among fastest growing alternative fuels in the US!



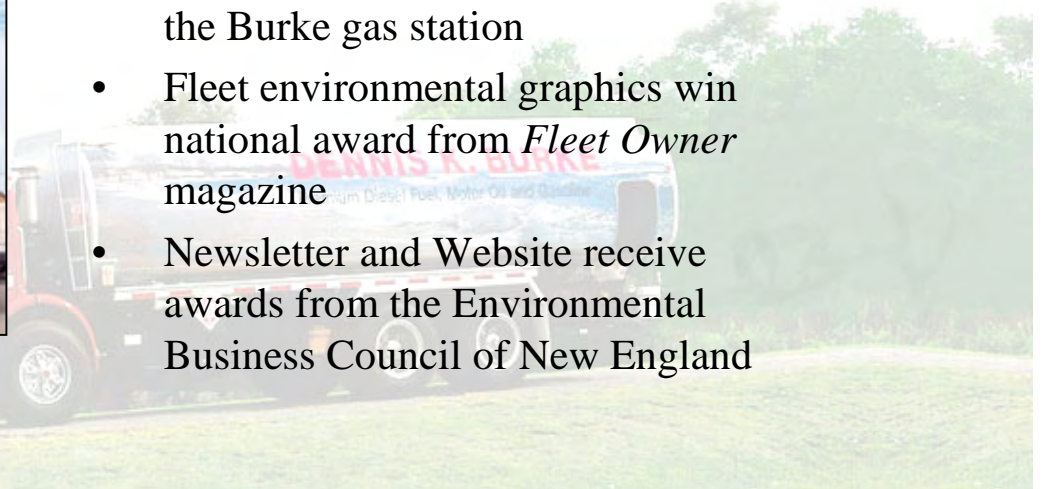
What is Biodiesel?

- Biodiesel (Methyl Esters) is a diesel replacement fuel made from Virgin Vegetable Oils such as Soybeans or Rapeseed. It can also be made from recycled restaurant oils.
- All natural, renewable, and dissolves in water faster than sugar.
- It is 11% oxygen by weight, and contains no sulfur.
- It reduces the black smoke from the back of a vehicle and makes the exhaust smell faintly of popcorn!
- Biodiesel lowers toxic emissions and particulate matter
- Biodiesel is safe to store, and has a high flash point
- Biodiesel has greater Cetane (50-56), and Lubricity than diesel fuel. 1% biodiesel increases lubricity by up to 30%
- Biodiesel requires no engine modification and does not affect engine performance. Just pour and go!
- Biodiesel is generally delivered blended with diesel fuel.



Who is Dennis K. Burke?

- Dennis K. Burke has been delivering premium diesel fuel, motor oil and gasoline throughout New England for over 40 years.
- Our Fleetline brand of Motor Oils and Lubricants has been on the job for over 20 years.
- In 1996, Burke recognized as “environmental specialists” in training, fleet issues and offering earth-friendly alternative products.
- In 2002, Burke is first gas station in Massachusetts to offer Biodiesel at the pump
- In 2003, Burke and NSTAR receive environmental collaboration award using Biodiesel
- In 2004, EPA made their Non-Road Diesel Standard announcement from the Burke gas station
- Fleet environmental graphics win national award from *Fleet Owner* magazine
- Newsletter and Website receive awards from the Environmental Business Council of New England



Executive orders

- In 1999, President's executive order called for an increased use of biomass energy, or farm products in lieu of fossil fuels
- In 1999, Ohio issued an executive order mandating the use of soy-based biodiesel in Ohio state fleets
- In 2000, Delaware announced the use of biodiesel in the Delaware state fleet
- In 2000, President's executive order to cut petroleum use in Federal fleets by 20% (EO 13149)
- In 2002, Minnesota enacted the nation's first biodiesel mandate requiring nearly all diesel fuel sold in the state contain at least 2% biodiesel by 2005



Energy Policy Act (EPAAct)



- Written After the Persian Gulf War to cut US petroleum use and dependence.
- Forces State, Federal, and utility fleets to move to alternative fuels
- Municipal and Private fleets added in 2002
- Biodiesel added in October 1998
- You can use biodiesel for up to 50% of your obligation
- Biodiesel requires no new refueling infrastructure.

Why choose Biodiesel?

The Answer to a number of issues!

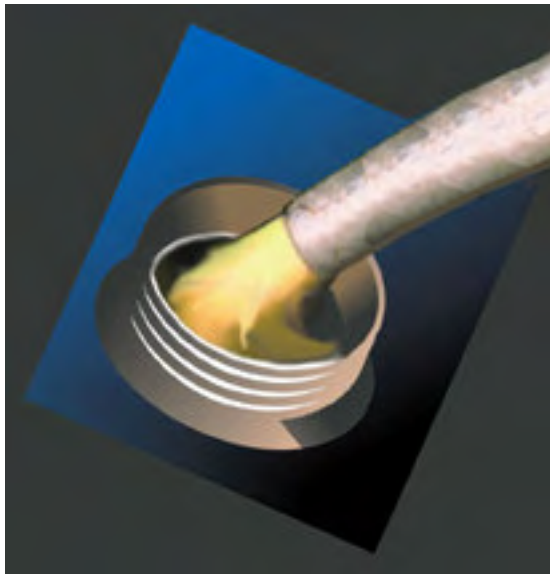
- **National Security:**
Reduction of imported petroleum
- **Environment:**
Reduction in greenhouse gases
- **Public Health:**
Less toxic to human health
- **Economic:**
Aid to U.S. farmers
- **Operations:**
A performance enhancer to conventional diesel



What is the appeal of Biodiesel?

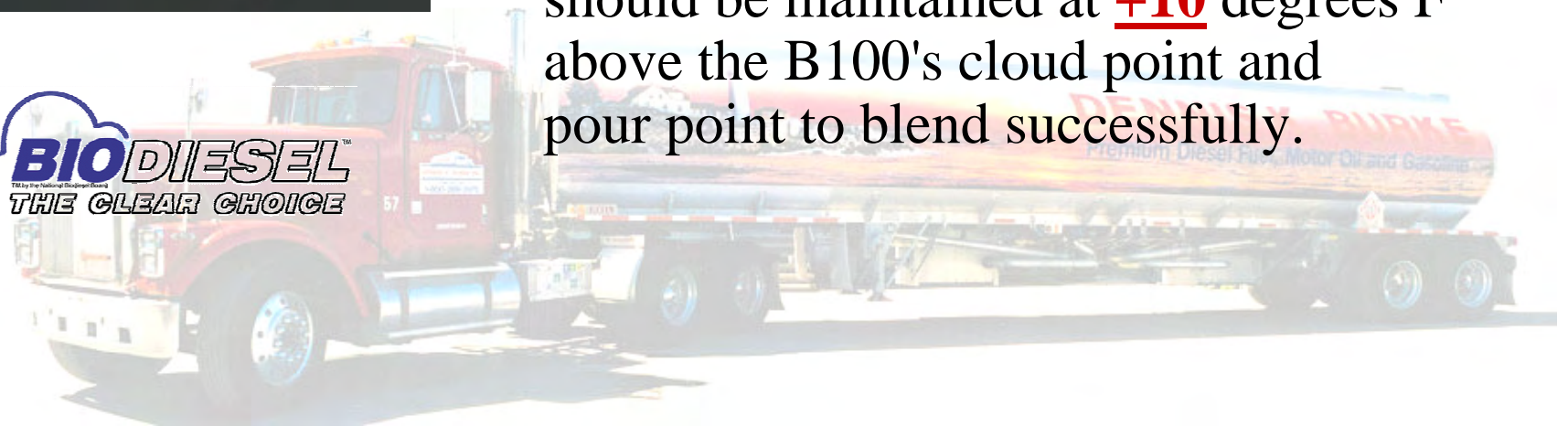
- Works in existing diesel engines with no modification
- Can achieve emissions reductions across an entire diesel fleet
- An immediate solution.
- Works in heavy-duty applications
- Can work in conjunction with any new vehicle program (*i.e., CNG in new vehicles, biodiesel in existing vehicles*)
- Requires no new refueling infrastructure
- As easy to transition out of as it is to implement
- Can be used in conjunction with Ultra Low Sulfur Diesel, particulate traps, catalytic converters, or diesel hybrid electric vehicles
- Provides direct aid to US farmers
- Available right now anywhere in the country

Blending Facts



- Biodiesel is slightly heavier than petroleum diesel with a gravity value of 0.88 versus 0.85.
- Ideally, the biodiesel should be introduced after diesel fuel and should be agitated in the tank during splash blending procedures.
- Storage and blending of B100 should be maintained at **+10** degrees F above the B100's cloud point and pour point to blend successfully.

BIODIESEL[™]
THE CLEAR CHOICE



What does Biodiesel cost?

- Biodiesel cost is variable depending on level of use
- Storage and freight are large components
- Costs comparisons should be based on blended product
- Ranges from \$0.10-0.20/gallon depending on tank size
- Extremely cost effective vs. any other option



VEETC Tax Credits

IRS Tax Form 8849 - Claim for Refund of Excise Tax

The IRS has created a system where every gallon of ethanol or biodiesel receives the full amount of credit when blended with a taxable fuel.

- Volumetric Ethanol Excise Tax Credit (VEETC)
- The "biodiesel mixture credit" is 50 cents per gallon for biodiesel mixtures and \$1.00 for agri-biodiesel mixtures (Schedule 3 Form 8849)
- The "alcohol fuel mixture credit" is 51 cents per gallon

The image shows three overlapping copies of IRS Form 8849, "Claim for Refund of Excise Tax". The forms are arranged diagonally, with the top one being the most prominent. The form includes sections for "Part I Claim for Refund of Second", "Part II Supporting Information", and "Instructions". It also features a table for "Schedules Attached" and a "Total Refund" calculation section. The form is titled "Form 8849 Department of the Treasury Internal Revenue Service Claim for Refund of Excise Taxes".

Bioheat

Why use a B5 blend?

Not covered due to focus of panel, but information available. See me anytime and I can forward relevant information and can discuss further.

Who is using Biodiesel?



Who is using Biodiesel?



Equipment Compatibility

- Defer to Mark Babcock and Adams & Fogg. If you would like to discuss how we handled at our station, I am available to discuss.



Is there a downside to Biodiesel?

Very Little!

- Biodiesel has outstanding cleaning properties, and will clean your fuel lines - we recommend changing your fuel filters after the first tank
- Biodiesel raises cloud points by 3-5° F virgin, and 10-12° F for recycled product
- Always spec virgin product for winter operation in colder climates (Spec your diesel as you normally would for winter operation)
- Always purchase blended product (EPA Act customers)
- B5 is becoming the blend of choice! (OFTEN BY THE ENGINE MANUFACTURERS' RECOMMENDATION)
- Use #1 diesel if a concern exists. Biodiesel lubricity characteristics gives #1 higher lubricity than straight #2
- Biodiesel can degrade natural rubber (*pre-1980 engines*)

ASTM D-6751 and BQ-9000 Certification ensure quality biodiesel product!

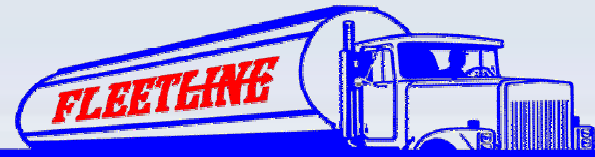
Ethanol – E85

- Dennis K. Burke, Inc has purchased and installed an E-85 tank at our retail facility. Permitting issues are tremendous, I will spare you the specifics
- Yes we have read the Consumer Reports article and we are familiar with the decline and mileage and product issues – and we still went ahead!
- Expect to sell very little if any – we do use some for our own use, as Ed Burke drives a “Flex-Fuel” Impala
- We have formed a strategic partnership with GM, as they are promoting the Flex-Fuel vehicles heavily, and we are associated retail location in Massachusetts and New England

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DENNIS K. BURKE INC.

The Emissions Experts

*Fleet manager references available
upon request for winter or summer operation.*

