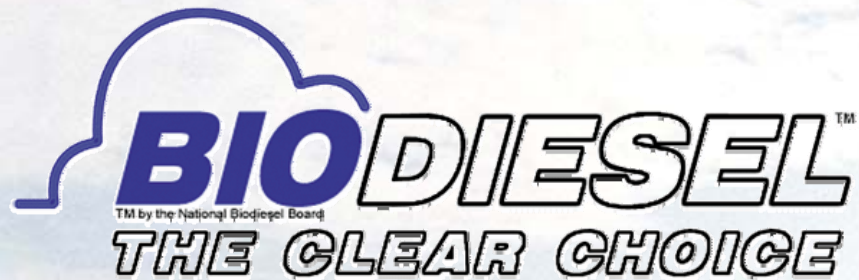


LOWER EMISSIONS AND REGULATORY COMPLIANCE

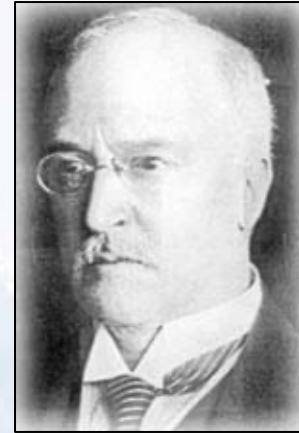
**BIODIESEL**TM
TM by the National Biodiesel Board
THE CLEAR CHOICE





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 has been used for years and is widely available in Europe
- Biodiesel among fastest growing alternative fuels in the US!



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.
- In 2004, EPA made their Non-Road Diesel Standard announcement from the Burke gas station
- In 2003, Burke and NSTAR receive environmental collaboration award using Biodiesel
- In 2002, Burke is first gas station in Massachusetts to offer Biodiesel at the pump
- 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.
- Fleet environmental graphics win national award from *Fleet Owner* magazine
- Newsletter and Website receive awards from the Environmental Business Council of New England



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
- Biofuels are a compliment to the petroleum industry!

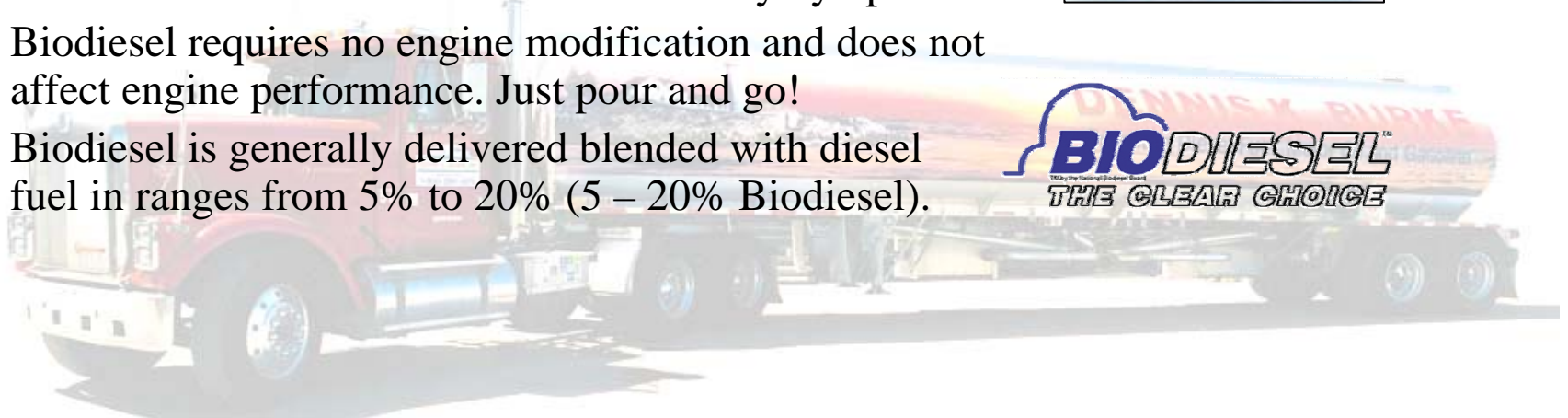
Executive orders

- 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

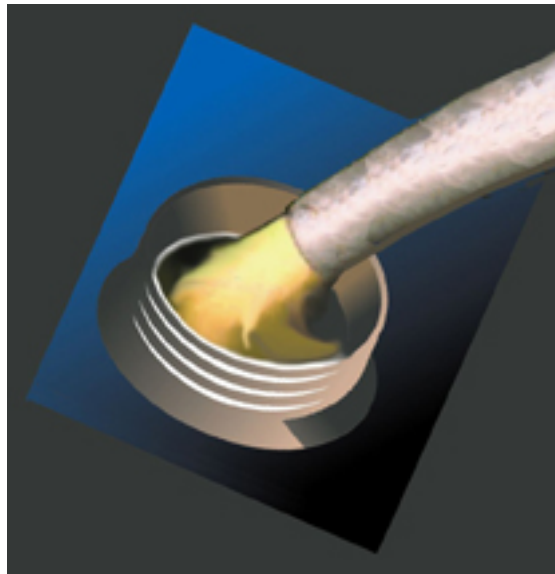


What is Biodiesel?

- 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 in ranges from 5% to 20% (5 – 20% Biodiesel).



Blending Facts



- Biodiesel is slightly heavier than petroleum diesel with a gravity value of 0.88 versus 0.85.
- Storage and blending of B100 should be maintained at **+10** degrees F above the B100's cloud point and pour point to blend successfully.
- Blends will not separate in the presence of water.



BIODIESEL[™]
THE CLEAR CHOICE

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

Who is using Biodiesel?



Who is using Biodiesel?



Equipment Compatibility



- Elastomers used after 1993 are compatible with B100 Biodiesel (Viton/Teflon)
- B100 may adversely impact elastomers manufactured from natural or nitrile rubbers
- Blends (B20) effect is less, or non-existent
- Consult with your parts supplier or mechanical engineering partners if unsure of materials
- Biodiesel is compatible with aluminum, mild and stainless steel tanks
- Biodiesel and biodiesel blends will form high sediment levels when in contact with brass, bronze, copper, lead, tin and zinc

Is there a downside to Biodiesel?

Very Little!

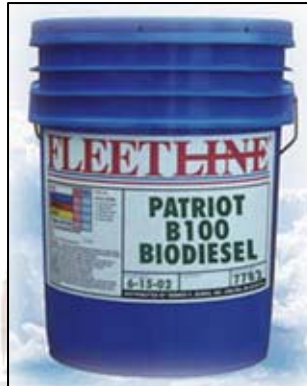
- Biodiesel has outstanding cleaning properties, and will clean your fuel lines - we recommend changing your fuel filters after the first tank
- Biodiesel raises cloud points by 3-5° F virgin, and 10-12° F for recycled product
- Always spec virgin product for winter operation in colder climates (Spec your diesel as you normally would for winter operation)
- Always purchase blended Product
- 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!

How do we deliver?

Product is stored in indoor, heated, and insulated tanks.
Product is blended with diesel directly into the delivery truck

- Blended product delivered into your existing ground tanks
- On-site metered “touch deliveries” to vehicles
- B5 and B20 blends available in pails and drums
- Biodiesel blends from the pump at our gas station in Chelsea
- Order pails and drums online at our website



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The Emissions Experts

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

