



## Biodiesel at UNH B20 is here!



**B20** (20% biodiesel) low sulfur fuel is now available at the state fuel center in Durham. NHDOT, at the request of the University of New Hampshire (UNH), and in cooperation with NHDES, the NH Office of Energy and Planning and the Clean Cities Coalition, has converted two existing gas pumps to B20 biodiesel.

The biodiesel meets ASTM D6751 and is produced to BQ9000 quality control standards. The fuel will have winter additives that have been tested in NH climate. B20 is trending equal cost with diesel - a further benefit to its operational and emissions benefits. **As a general rule, UNH is moving to B20 for the bulk of its diesel fleet and soon thereafter, diesel equipment.**

### ***Why Biodiesel?***

- The *bio* in biodiesel is a domestically produced, agricultural product. We reduce our consumption of imported petroleum and support domestic agriculture and fuel security by moving toward this fuel source. In the future, biodiesel blends will become more common in fleet and stationary applications.
- Biodiesel burns cleaner – reducing hydrocarbon, particulate and toxic air emissions. Reducing these emissions results in cleaner air and reduced respiratory health impacts. That's good for our atmosphere and our employees! As a climate protection campus, UNH is committed to reducing its emissions of greenhouse gases, improving energy efficiency and conservation, and educating students, faculty, and staff about the relationship between energy choices and costs, climate change, and our economic and social well-being.

UNH has received state and federal support for its proactive movement towards clean and alternative fuels. This process has resulted in financial support for new Clean Fleet vehicles and new alternative fuel infrastructure on campus – including biodiesel, electric, hybrid and compressed natural gas (CNG) vehicles.

### ***Is my diesel vehicle or equipment ready for B20?***

UNH encourages use of biodiesel for its diesel fleet and equipment except the following:

- ***Vehicles and equipment older than 1990 model year.*** These vehicles may have latex/rubber based fuel lines that may degrade with use of B20. If the vehicle is older than 1990, please check with the manufacturer regarding fuel lines. Consider replacement of the fuel lines, or simply stick with regular diesel until this vehicle is retired.
- ***New vehicles or equipment under engine warranty:*** Some engine manufacturers currently provide uncontested warranty coverage up to 5% bio blends only. Although no problems are expected with the use of B20, you should be aware of your specific new engine warranty and, if necessary, wait until the vehicle is out of engine warranty to commence use of B20. Check with your vendor/manufacturer first!

## **Transition Issues?**

- *The additional solvency of B20 may result in freeing of sediment from vehicle diesel tanks and lines. Frequently, on older vehicles a one-time, additional fuel filter replacement after 2-3 tanks of B20 is recommended. The UNH garage will help you with this and monitor vehicle performance during transition.*
- *If for any reason you need to fuel with regular diesel in an emergency or off-campus, there is no problem switching between diesel and B20 biodiesel. UNH prefers that vehicles and equipment shifted to B20 remain with that fuel permanently unless there is proven justification for a switch back.*

***No other changes in operation are required for use of biodiesel.***

## **OK – How do I make the switch?**

***☑ Step 1 Identify diesel vehicles and equipment in your department and confirm they are not excluded per above. If you need technical assistance or advice, contact Ray Myatt or Steve Pesci (below)***

***☑ Step 2 Request recoding of Fuel Card(s) for the vehicles or equipment***

To access B20 at the fuel pumps, you will need to contact Martha Mower and confirm that your existing diesel vehicle fuel card has been recoded (a sticker will be attached). Once this is done, B20 will be the primary fuel for the vehicle or equipment. To request recoding(s) contact Martha via email with the vehicle plate number and she will provide instruction.

***☑ Step 3 Use the B20 labeled pump at the fuel center (Pumps 3-4).  
That's all there is to it.***

## **Want to Know More?**

### **UNH Contact Team:**

*Vehicle Specs and Issues:*

Ray Myatt, [ray.myatt@unh.edu](mailto:ray.myatt@unh.edu) or 2-1437

*Fuel Cards:*

Martha Mower, [Martha.mower@unh.edu](mailto:Martha.mower@unh.edu) or 2-2971

*General Biodiesel Use at UNH:*

Stephen Pesci, [spesci@unh.edu](mailto:spesci@unh.edu) or 2-4207

### **General Information**

- Energy and Alternative Fuel issues at UNH by visiting the **Energy Task Force** Web page at: [www.unh.edu/etf](http://www.unh.edu/etf)
- To find out more about biodiesel - the National Biodiesel Board website at [www.biodiesel.org](http://www.biodiesel.org)
- For information on engine manufacturer warranties or recommendations see [www.biodiesel.org/resources/fuelfactsheets/standards\\_and\\_warranties.shtm](http://www.biodiesel.org/resources/fuelfactsheets/standards_and_warranties.shtm)