Matt Beach, Agricultural Systems Management

Year in School:       Junior  
Faculty Mentor:      Dr. Leon Schumacher, Agricultural Engineering  
Funding Source:      Missouri Soybean Merchandising Council  

Lubricity testing with biodiesel blends

The number 1 diesel fuel needed for testing that met a certain viscosity and sulfur content was secured. The fuel was then mixed with biodiesel on two, three, four, five, and six percent blends. The fuel was tested using ASTM D-6078 standards with an SLBOCLE machine in conjunction with the Chemical Engineering Department at the University of Missouri. B-5 and B-6 blends met the standards set forth in ASTM D-6078.