



Laboratory Services

Biodiesel Blends Cold Flow Characteristics

Testing Date: February 19-20, 2001
Diesel Fuel from Terminals Currently Supplying Minnesota

<u>Sample</u>	<u>Cloud*</u> <u>Point</u>	<u>Pour*</u> <u>Point</u>	<u>Cold Filter*</u> <u>Plugging pt.</u>
Soy Methyl Esters (Soy)	32	25	22
Yellow Grease Methyl Esters (YG)	48	45	48
#2 Low Sulfur Diesel Fuel (#2)	4	-30	1
50% #2 and 50% #1 (50/50)	-6	-45	-12
#2 Diesel Fuel	4	-30	1
2% Soy in #2	6	-25	1
5% Soy in #2	8	-20	-1
50% #1 w/ 50% #2	-6	-45	-12
2% Soy in 50/50	-6	-40	-14
5% Soy in 50/50	-6	-40	-14
#2 Diesel Fuel	4	-30	1
2% YG in #2	6	-25	0
5% YG in #2	9	-20	1
50% #1 w/ 50% #2	-6	-45	-12
2% YG in 50/50	-6	-40	-12
5% YG in 50/50	-2	-30	-10

* All data are reported in degrees Fahrenheit.



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Biodiesel Blends - continued

<u>Sample</u>	<u>Cloud*</u> <u>Point</u>	<u>Pour*</u> <u>Point</u>	<u>Cold Filter*</u> <u>Plugging pt.</u>
#1 Low Sulfur Diesel Fuel (#1)	-54	-70	<-30
#1 Diesel Fuel	-54	-70	<-30
2% Soy in #1	-45	-60	<-30
5% Soy in #1	-32	-55	<-30
#1 Diesel Fuel	-54	-70	<-30
2% YG in #1	-38	-60	<-30
5% YG in #1	-19	-60	-26

* All data are reported in degrees Fahrenheit.