

Biodiesel

Date of sampling: 17.01.2012**Samples taken by: Independent Inspector**

TEST		METHOD	RESULT
Acid value	% Wt	EN 14104	0.40
Ash	% Wt	ISO 3987	<0.001
Cetane number	-	D613	54.15
Cold filter plugging point	°C	EN 116	0
Carbon residue (10%)	% Wt	IP13, D189, ISO 6615	0.25
Copper corrosion (3 hrs at 50 °C)	Class	D130, ISO 2160	1a
Density at 15°C	kg/l	IP34, D93	0.8826
Flash point	°C	IP523, ISO3679	170
Iodine value	gl/100g	EN 14111	100
Viscosity at 40°C	cst	ISO 3104	4.618
Sodium	mg/kg	EN 14538	<1
Calcium	mg/kg	EN 14538	<1
Potassium	mg/kg	EN 14538	<1
Magnesium	mg/kg	EN 14538	<1
Phosphorous	mg/kg	EN 14107	<4
Methanol content	% Wt	EN 14110	0.01
Monoglyceride content	% Wt	EN 14105	0.32
Diglyceride content	% Wt	EN 14105	0.13
Triglyceride content	% Wt	EN 14105	0.10
Free Glycerol	% Wt	EN 14105	0.01
Total Glycerol	% Wt	EN 14105	0.11
Oxidation stability 110°C	hrs	EN 14112	9.1
Filter blocking tendency	Rating	IP387	1.09
- sample temperature	°C		16
- sample volume	ml		300
- initial pressure	kPa		10
- final pressure	kPa		45
Particulate matter	mg/kg	EN 12662	10.8
Sulphur content	mg/kg	EN ISO 20846	6.8
Water content	mg/kg	EN ISO 12937	290