



Léman Bio Energie SA
Route de Pallatex 1
1163 Etoy
SWITZERLAND

Your reference : Burton
Your order id. : Letter
Date of order : 18.02.2019
Sample receipt : 25.02.2019
Sampling : Customer
Start of test period : 25.02.2019
End of test period : 26.02.2019
Report date : 26.02.2019
Page : 1 of 1

Report No.: 2701566-1

Sample : LBE-BF-Compt-2019.02.18
Appearance : Color yellowish, clear, no visible impurities and water
Container : PE/PP bottle 1000 ml
ASG-ID : 2701566_001

Seal No.: -

Parameter	Method	Result	Specification DIN EN 14214 :2014		Unit
			min.	max.	
Ester content	DIN EN 14103 :2015	96,4	96,5	-	% (m/m)
Linolenic acid content		1,0	-	12,0	% (m/m)
Density (15 °C)	DIN EN ISO 12185 :1997	883,7	860	900	kg/m ³
Kin. viscosity (40 °C)	DIN EN ISO 3104 :1999	4,689	3,50	5,00	mm ² /s
Flash point	DIN EN ISO 2719 :2016	139,0	101	-	°C
CFPP	DIN EN 116 :2018	-5	-	*	°C
Sulfur content	DIN EN ISO 20884 :2011	<5 (3,1)	-	10	mg/kg
Cetane Number (DCN)	DIN EN 15195 :2015	52,1	51,0	-	-
Sulfated ash (775 °C)	ISO 3987 :2010	<0,01	-	0,02	% (m/m)
Water content	DIN EN ISO 12937 :2002	302	-	500	mg/kg
Total contamination	DIN EN 12662 :1998	7	-	24	mg/kg
Copper strip corrosion	DIN EN ISO 2160 :1999	1	-	1	Corr.°
Oxidation stability	DIN EN 14112 :2016	8,8	8,0	-	h
Acid value	DIN EN 14104 :2003	0,066	-	0,50	mg KOH/g
Iodine value	DIN EN 16300 :2012	98,7	-	120	g Iodine/100g
Polyunsaturated ME	DIN EN 15779 :2013	<0,6	-	1,00	% (m/m)
Methanol content	DIN EN 14110 :2003	0,01	-	0,20	% (m/m)
Free glycerol content	DIN EN 14105 :2011	<0,001	-	0,02	% (m/m)
Monoglyceride content		0,04	-	0,70	% (m/m)
Diglyceride content		0,12	-	0,20	% (m/m)
Triglyceride content		0,10	-	0,20	% (m/m)
Total glycerol content		0,039	-	0,25	% (m/m)
Phosphorous content	DIN EN 14107 :2003	<4 (0,5)	-	4,0	mg/kg
Alkali content (Na+K)	DIN EN 14538 :2006	<1	-	5,0	mg/kg
Metal Content II (Ca+Mg)		<1	-	5,0	mg/kg
Cloud point	DIN EN 23015 :1994	+1	-	*	°C

*acc. national specifications

Jürgen Bernath (Technical Manager)



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