

Léman Bio Energie SA
Route de Pallatex 1
1163 Etoy
SWITZERLAND

Your reference : -
Your order no. : QM Biodiesel CH 2018/2
Date of order : 07.09.2018
Sample Receipt : 07.09.2018
Sender : Dr.Radig
Start of test period : 07.09.2018
End of test period : 13.09.2018
Report date : 14.09.2018
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Report No. : 2606406-1

Sample : II A, 28.08.2018; Producer: Léman Bio Energie SA, Route de Pallatex 1, CH1163 Etoy
Proof number : 255.014
Appearance : Color brownish, clear, no visible impurities and water
Container : metal canister 1000 ml
ASG-ID : 2606406_001 Seal No. : -

Parameter	Method	Result	Specification DIN EN 14214:2014-06		Unit
			min.	max.	
Ester content	DIN EN 14103:2015	96,4	96,5	-	% (m/m)
Density (15 °C)	DIN EN ISO 12185	883,4	860	900	kg/m ³
Kin. viscosity (40 °C)	DIN EN ISO 3104	4,761	3,50	5,00	mm ² /s
Flash point	DIN EN ISO 2719	162,0	101	-	°C
CFPP	DIN EN 116	-6	-	*	°C
Sulfur content	DIN EN ISO 20884	6,8	-	10	mg/kg
Cetane Number [DCN]	DIN EN 15195	54,6	51,0	-	-
Sulfated ash (775 °C)	ISO 3987	<0,001	-	0,02	% (m/m)
Water content	DIN EN ISO 12937	276	-	500	mg/kg
Total contamination	DIN EN 12662:1998	15	-	24	mg/kg
Copper strip corrosion	DIN EN ISO 2160	1	-	1	Corr.°
Oxidation stability	DIN EN 14112	13,1	8,0	-	h
Acid value	DIN EN 14104	0,095	-	0,50	mg KOH/g
Iodine value	DIN EN 16300	93,9	-	120	g Iodine/100g
Linolenic acid content	DIN EN 14103:2015	1,1	-	12,0	% (m/m)
Polyunsaturated Methyl Esters	DIN EN 15779/A1	<0,6	-	1,00	% (m/m)
Methanol content	DIN EN 14110	0,02	-	0,20	% (m/m)
Free glycerol content	DIN EN 14105:2011	<0,001	-	0,02	% (m/m)
Monoglyceride content		0,05	-	0,70	% (m/m)
Diglyceride content		0,10	-	0,20	% (m/m)
Triglyceride content		0,01	-	0,20	% (m/m)
Total glycerol content		0,029	-	0,25	% (m/m)
Phosphorous content	DIN EN 14107	<4 [1,1]	-	4,0	mg/kg
Alkali content (Na+K)	DIN EN 14538	<1	-	5,0	mg/kg
Metal Content II (Ca+Mg)		<1	-	5,0	mg/kg
Cloud point	DIN EN 23015	+4	-	*	°C

*acc. national specifications



Jürgen Bernath (Technical manager)

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