

Analytical Report Control Union Certifications Germany GmbH Attn: . Bornitzstraße 73-75 D-10365 Berlin Germany Reportnr. : 1796904 version 1 :06-Nov-2023 Sample Arrival Date 20-Nov-2023 11:04 Sampling Date 28-Nov-2023 14:37 ReportDate Version Samplesize (kg) :9,749 Seal / Seal Code Packing : Plastic, ambient : No / Sample information * **Disponent Number** :YRN/A1/0611_1 Product specification : Wood pellets Reference : PRJ: 898830 AWB / BarCode :CO300203315EE Disp. Remark : Client: Yohraiten LLC * Information supplied by customer (TLR takes no responsibility for this information). **Composition Determination** Parameter Result Result Result Result (as received) (on dry) (as det) (drv ash free) **Total Moisture** R 8,66 % Q % Moisture Airdry Q R 6.42 0,55 0.61 0,57 % Q R Ash Volatile matter incl. moisture. 85,77 % Q R Volatile matter % 79,35 77.45 84,80 85,31 **Fixed Carbon** 13,33 14,60 % **Gross Calorific Value** 4554,3 4986,1 4666.2 5016,6 kcal/kg Q R 19,07 20,88 19,54 21,00 GJ/mt 8197.8 8975.0 8399.2 9029.9 B.T.U.'s/Lb Nett Calorific Value (cV) kcal/kg 4230,2 Q 17,71 GJ/mt 7614,3 B.T.U.'s/Lb kWh/kg 4.9 Nett Calorific Value (cP) 17,63 GJ/mt Q Emissionfactor CO2 (cV) 97,20 t CO2/TJ Emissionfactor CO2 (cP) 97,63 t CO2/TJ Hydrogen 5,61 6,15 6,47 6,18 % Q R Carbon 46,95 51,40 48,10 51,71 % Q R < 0.05 < 0.05 < 0.05 < 0.05 % Q R Nitrogen. < 0.010 < 0.010 < 0.010 < 0.010 % Q R S. (Sulfer) 42,050 % Oxygen (by difference) Preparation Common Result Parameter Result Result (as received) (on dry) (as det) Biomass preparation in accordance with NEN-EN-ISO21646 R Preparation sample Ω **Composition Determination** Common Parameter Result Result Result (on dry) (as det) (as received)

Demanded 20-Nov-2023 by Control Union Certifications Germany GmbH Analyses according to annex

P.W. Platteschor, Managing Director TLR International Laboratories



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eportDate Version : 28-Nov	-2023 11:04 - 2023 14:37 ambient		Sampling Date Samplesize (kg) Seal / Seal Code	*: 06-Nov-2023 : 9,749 : No /		
AFT. (oxid) DT			1250	gr. C		R
Diameter pellets (n=25)	6,2			mm	Q	R
Length of pellets	13,0			mm	Q	R
Sieve < 3,15 mm.	0,28			%		R
Metal and other elements	A since the set	1.				
Parameter	Result (as received)	Result (on dry)	Result (as det)	Mest.	木	
Cd (Cadmium)	0,134	0,146	0,137	mg/kg	Q	R
Pb (Lead)	0,06	0,07	0,07	mg/kg	Q	R
As (Arsenic)	< 0,040	< 0,040	< 0,040	mg/kg	Q	R
Hg (Mercury)	< 0,020	< 0,020	< 0,020	mg/kg	Q	R
Ni (Nickel)	< 3,0	< 3,0	< 3,0	mg/kg	Q	R
CI (Chlorine)	< 0,005	< 0,005	< 0,005	%	Q	R
Cr.(Chromium)	< 5,0	< 5,0	< 5,0	mg/kg	X	R
Cu.(Copper)	< 5,0	< 5,0	< 5,0	mg/kg	1 Set	R
Zn. (Zinc)	6,7	7,3	6,8	mg/kg		R
Parameter	Result (as received)	Result (on dry)	Result (as det)	1 All	Ø	¥.
Sieve < 5,6 mm		• X	0,4	%		R
Other Analysis				1.1.		
Common		1.				
Parameter	Result (as received)	Result (on dry)	Result (as det)			
Mechanical Durability	98,9	1.1.5	1 1/31	%	Q	R
Bulk density-	622	A.		kg/m3	Q	R
Particle density	C.Z.M.N	XSP	1,26	g/cm3		R
Share of pellets< 10mm	1. 1.17		15,2	w %		R
Category	Category L		/ ACCENT			R
Q - Analyses ISO 17025 accredited by Rv R - Carried out by TLR International Labo	A (ILAC) ratories, location Ridderkerk		XDXD	S.S.		
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			CTAN P	1		

Demanded 20-Nov-2023 by Control Union Certifications Germany GmbH Analyses according to annex P.W. Platteschor, Managing Director TLR International Laboratories



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Reportnr. Sample Arrival Date	: 1796904 version 1 : 20-Nov-2023 11:04	Sampling Date	*: 06-Nov-2023
ReportDate Version	: 28-Nov-2023 14:37	Samplesize (kg)	:9,749
Packing	: Plastic, ambient	Seal / Seal Code	: No /
	DAC L	XX	
	14XX	1/2	
Method Descriptior	15		
Composition Deter	mination		
Common			Acres 1
Method Description			Method Code
	ash; gravimetric method		
Coal: NEN-ISO 1	171 Biomass: NEN-EN15	A AN.	
		hydrogen (H) with the element analyser ISO 16948 : Secondary bio fuels NEN-EN	
	fusibility of ash; ash form	NEN-EN-ISO 21404	
	gross caloric value by bor	Le Xex	
value Coal: NEN-ISO 1 EN15400	928, Solid Biofuels NEN-I	EN-ISO18125; secundairy biofuels NEN-	
Determination of moisture in the analyse sample; gravimetric method Coal: NEN-ISO 11722;Biomass: NEN-EN-ISO 18134-3; Secondary bio fuels : NEN- EN15414-3			
Determination of Sulphur (S); NEN-EN-ISO 16994			
	the amount of material pa	ssing through a sieve with 3,15 mm diameter	
Determination of the length and diameter of the woodpellets; Own method			Acc. NEN-EN-ISO17829
Determination of Coal:NEN-ISO-58 CEN/TS 15414-1		ole; gravimetric method I-ISO 18134-1; Secondary bio fuels : NPR-	
	volatile matter content; gr 62; Biomass: NEN-EN-IS	avimetric method O 18123; secundairy biofuels: NEN-EN 15402	×.
Metal and other e		1	
Method Descript	12 2811		Method Code
Determination of Chlorine (Cl); Ion chromatography Biomass: according NEN-EN-ISO 16994 Coal: Own method			NEN-EN-ISO 16994
Determination of	mercury (Hg); CV-AAS	Acc. NEN-EN-ISO16968	
Determination of	minor elements. As, Cd, 0	Co, Cr, Cu, Hg, Mn, Mo, Ni, Pb, Sb, V and Zn	eq.nen-en-iso16968
Method Description			Method Code
•	the amount of material pa	ssing through a sieve with 3,15 mm diameter	and a second sec
			the International Laboratoria
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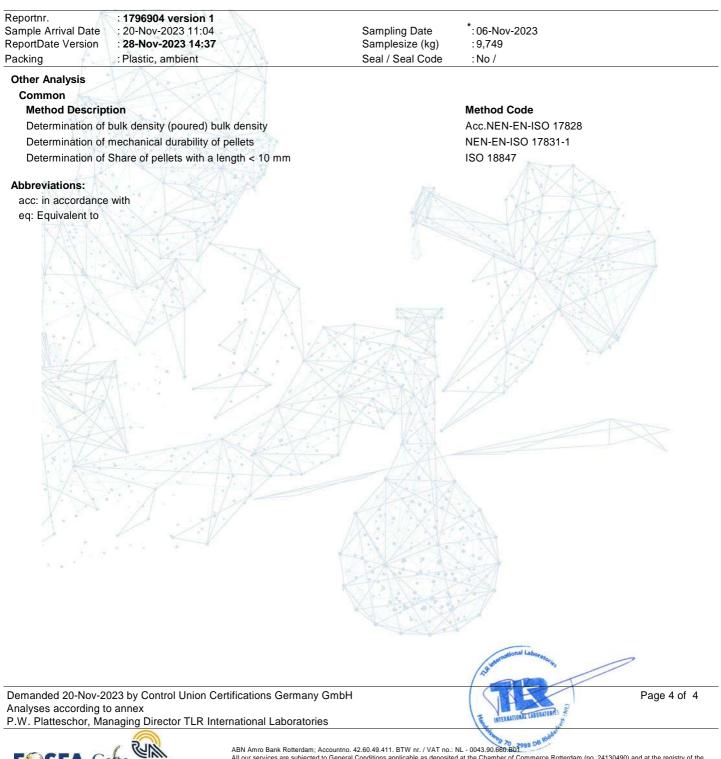


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