



INDEPENDENT TRANSPORT AND CARGO SURVEYORS

No.2, Katrinās street, office 5
Rīga, Latvia, LV-1045

Latvian Chamber of Commerce & Industry Reg. № 3755
LVS EN ISO 9001:2015 Bureau Veritas issued Cert. Nr. LV 008566

Ref. Treeone ex Aarhus / 23.12.2024

CERTIFICATE OF ANALYSIS No.01-1550/24Q

Material/Packing : Pellets in bulk. Represent sample weight 10 kg. Packing- tight plastic bag placed in cardboard box, locked by black w/n plastic seal.
Sample marking : 8mm Aarhus TREEONE, ex- Aarhus Denmark. Date shipping indicated 23rd of December, 2024.
Shipment details : Schultz Shipping A/S Aarhus, Sydhavnsgrde 1 2 8000 Aarhus C Denmark. DHL Waybill 47 1032 4253. Date: 2024-12-23.
Applicant : CM Biomass Partners A/S. Sundkrogsgade 11, 2.th 2100 Copenhagen Denmark.
Date of receipt : 27-th of December, 2024.

ORIGINAL

This to certify that as per instructions received from Applicant, inspectors of Independent Survey Agency SKS-F Ltd had received sample of above material prepared according to the standard EN ISO 18135:2017 and tightly packed at double polythene bags locked by above mentioned numbering seal. Such represented specimens were delivered to the local certified laboratory for the quality analyses as per LVS EN ISO TS International Standards.

Obtained test results for the next parameters:

Nr.	Characteristics Verification	Unit	Standard	Actual result	Uncertainty		
1.	Moisture content, M arb	%	LVS EN ISO 18134-1	10,5	+/- 0,2		
2.	Ash content, arb, 550 °C	%	LVS EN ISO 18122	0,92	+/- 0,07		
3.	Chlorine content, dry basis, CL	%	LVS EN ISO 16994	0,012	+/- 0,002		
4.	Nitrogen content, dry basis, N	%	LVS EN ISO 16948	0,10	+/- 0,02		
5.	Sulphur content, dry basis, S	%	LVS EN ISO 16994	0,020	+/- 0,004		
6.	Gross Calorific value at constant volume Q gr as received, V=const.	MJ/kg	LVS EN ISO 18125:2017	17,91	+/- 0,5 %		
		kcal/kg		4278			
		MWh/t		4,98			
7.	Net Calorific value at constant pressure Q net as received, P=const.	MJ/kg	LVS EN ISO 18125:2017	16,45	+/- 0,5 %		
		kcal/kg		3928			
		MWh/t		4,57			
8.	Mechanical Durability, DU	%	LVS EN ISO 17831-1	98,3	+/- 0,2		
9.	Fines content (Dry sieve test) < 3,15 mm	%	LVS EN ISO 18846	0,99	+/- 0,03		
10.	Bulk density, BD	Kg/m ³	LVS EN ISO 17828	650	+/- 10		
11.	Average diameter of pellets, D av	mm	LVS EN ISO 17829	8,6	+/- 0,2		
12.	Length of pellets (fraction) ≤ 50 mm	%	LVS EN ISO 17829	100,0	+/- 0,1		
13.	Length of pellets (fraction) ≤ 40 mm	%	LVS EN ISO 17829	99,9	+/- 0,1		
14.	Ash melting behaviour oxidising atmosphere 550°C - Shrinkage starting temperature, SST - Deformation temperature, DT - Hemisphere temperature, HT - Flow temperature, FT	°C	LVS EN ISO 21404:2020	1080	+/- 10		
				1150			
				1180			
				1190			
15.	Pellets fractions size distribution (Wet sieve test) < 4,0 mm < 3,15 mm < 2,0 mm < 1,4 mm < 1,0 mm < 0,25 mm	%	LVS EN ISO 17830:2016	96,0	+/- 0,1		
				91,8	0,2		
				85,8	0,3		
				70,9	0,4		
				54,4	0,5		
				10,9	0,4		
16.	Chemical elements content in the dry material	(db)	ISO TS 16996 ISO 16968 LVS EN 15309	Concentration			
				- Arsenic (Arsenicum), As	mg/kg	≤ 0,1	-
				- Cadmium, Cd	mg/kg	≤ 0,1	-
				- Chromium (Cromium), Cr	mg/kg	0,7	0,1
				- Copper (Cuprum), Cu	mg/kg	1,1	0,1
				- Mercury (Hydrargyrum), Hg	mg/kg	≤ 0,1	-
				- Nickel (Niccolum), Ni	mg/kg	0,5	0,1
				- Lead (Plumbum), Pb	mg/kg	0,4	0,1
				- Zink (Zincum), Zn	mg/kg	3,1	0,2
				- Vanadium, V	mg/kg	0,6	0,1

Represented specimen marked as: 8 mm Aarhus TREEONE, ex- Aarhus Denmark. Date shipping indicated 23-rd of December, 2024., had been tested at the local laboratory in period of the 27.12+02.01.2025. Remain of representative sample 1 bag (one) to be retained for minimum of 1 week unless written instructions was received to the contrary. Certificate is issued amenably the Virsma, Testesanas Parskats/ test reports No.1-620-24 dated 02.01.2025 of the laboratory accredited in accordance with standard EN ISO/IEC 17025 T-584, at Riga Latvia.

This inspection performed in accordance with Principals instructions. This Certificate issued to the best of our ability and knowledge for the time and place of inspection and within the limitation of instructions received but without prejudice and without releasing Shippers and/or other parties involved from their contractual obligations.

Issued and dated at Riga,
03-rd of January, 2025.

FOR AND ON BEHALF OF SKS-F

