



# МОРСКОЕ ГРУЗОВОЕ БЮРО MARINE CARGO BUREAU

Quality Management System is Certified in Compliance with ISO 9001:2015

Национальная признанная организация по безопасности морской транспортировки грузов



National Recognized Organization on the Safe Carriage of Cargoes by Sea

## MCB TEST LABORATORY

**RECOGNITION CERTIFICATE No. 15.06260.381 dated February 18, 2015**

**CERTIFICATE OF EVALUATION No. MCB-TL.052.20.CAWP**

### Chemical/physical analyses of wood fuel pellets

This is certify, at request of "CM-BIOMAS", LLC the Test laboratory of "MARINE CARGO BUREAU", JSC have performed Determination of chemical analyses on the sample of below-mentioned commodity:

Description of cargo: WOOD PELLETS, Ø6mm  
 Manufacturer: "Belozerskiy LPH", JSC (Cherepovetsles)  
 Sample represents: Storage No. 17, 29, 35; 950,134 MT; March 10, 2020  
 Date and time of testing: March 11-16, 2020  
 Testing site: Saint-Petersburg, Russia

### PRECORD MEASUREMENT:

The test on representative sample is performed in conformity with European Standards CEN/TS, EN.

PARAMETER	METHOD	AS RECEIVED BASIS	DRY BASIS
TOTAL MOISTURE, %	EN 14774-1	8,1	-----
ASH, %	EN 14775	0,31	0,34
MECHANICAL DURABILITY, %	ISO 17831-1	98,6	-----
Particle size distribution of disintegrated pellets:			
Less 2,00 mm, %	EN 16126	92,48	
+3,15 mm, %		2,19	
2,8-3,15 mm, %		1,00	
2,0-2,8 mm, %		4,34	
1,4-2,0 mm, %		9,90	
1,0-1,4 mm, %		11,21	
0,5-1,0 mm, %		30,46	
0,25-0,5 mm, %		21,00	
0,1-0,25 mm, %		16,44	
-0,1 mm, %		3,46	
Determination of length:			
+45 mm, %	ISO 17829 (hand sorting)	0,00	
40-45 mm, %		0,00	
30 - 40 mm, %		1,12	
20 - 30 mm, %		11,48	
10 -20 mm, %		72,54	
6,3 - 10 mm, %		13,86	
3,15 - 6,3 mm, %		0,99	
-3,15 mm, %		0,03	
Ash fusion temperatures in reducing atmosphere:			
DEFORMATION, °C	CEN/TS 15370-1	+1500	
HEMISPHERE, °C		+1500	
FLOW, °C		+1500	

Deputy director

"MARINE CARGO BUREAU", JSC

Anatoly Fedorov

March 16, 2020.

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