

1003004



REPUBLIC OF BELARUS
JSC "Grodno Azot"
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Quality Certificate N 6911450

Date of issue : 26.11.2015

Consignee, address, country

Викинг Ойл СЕ

Czech Republic

QR REF 347794

Truck N GKS92C3 GKS73YL

Lot N 21 / 15

Contract №616-00203832/4-14-275 from 18.11.2014

Add №1 от 17.11.2015

Date of manufacture 18.11.2015

Name of the goods Name of TNLA (technical normative legal acts)	Mode of transport/ Packing type	Unit	Quantity	Weight, kg (gross, net)	Volume м3
FAME STB 1657-2012	AUTOCISTERN	pcs	1	37 760 23 240	

Parameters description	Norms	Actual parameter
1 Mass fraction of methyl esters, %, not less	98,5	98,9
2 Density at 15 °C, kg/m ³	850 - 900	883,6
3 Viscosity at 40°C, mm ² /c	3,50 - 5,00	4,447
4 Flash point, °C, not below	101	190,7
5 Sulphur content, mg/kg, not more	10	<3,0
6 Coking property of 10% residue, %, not more	0,30	0,11
7 Cetan number, not less	51	54,0
8 Mass fraction of sulphate ash, %, not more	0,02	<0,005
9 Water content, mg/kg, not more	500	330
10 Content of mechanical impurities, mg/kg, not more	24	<5,0
11 Copper strip corrosion (3 hr. at 50 °C), class	Class 1	класс 1
12 Oxidation stability at 110 °C, hr., not less	6,0	9,3
13 Acid number, mg KOH/g, not more	0,50	0,46
14 Iodin number, I ₂ /100g, not more	120	117
15 Mass fraction of linolenic acid methyl ether, %, not more	12,0	10,1
16 Mass fraction of polyunsaturated (>=4 double bonds) fatty acids methyl esters, %	1,00	<0,60
17 Mass fraction of methanol, %, not more	0,20	<0,01
18 Mass fraction monoglycerides, %, not more	0,80	0,60
19 Mass fraction diglycerides, %, not more	0,20	0,17
20 Mass fraction triglycerides, %, not more	0,20	<0,10
21 Mass fraction of free glycerine, %, not more	0,02	0,001
22 Mass fraction of total glycerine, %, not more	0,25	0,187
23 Content of metals of I group (Na+K), mg/kg, not more	5,0	<1,0
24 Content of metals of II group (Ca+Mg), mg/kg, not more	5,0	<1,0
25 Phosphorus content, mg/kg, not more	4,0	<4,0
26 Temperature limit of filterability (CFPP), °C, max	minus 20	minus 21

Fatty acids methyl esters (FAME) corresponds STB 1657-2012

Warranty period-3 months from the date of production



Quality Control Department Manager

Delivery date
26.11.2015