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DATUM

VERSION

FAME

ANALYSIS REPORT

Report number: **10303/00023589.1/L/22**
Main Object: **KEY EAST**
Report Date: **2022-12-02**
Date of issue: **2022-12-02**
Sample object: **204**
Sample type: **Sampled**
Sample submitted as: **FAME O**
Marked: **Shore tank 204 single tank field composite before loading into Vessel KEY EAST**

Date of sampling: **2022-12-01**
Place of sampling: **Mercuria Biofuels Brunsbüttel GmbH**
Date received: **2022-12-01**
Date completed: **2022-12-02**
Sample number: **14027008**

NAME	GRÄNSVÄRDE	UNIT	SPECS		RESULT
			MIN	MAX	
Esters and linolenic acid methyl ester	EN 14103:2011				
FAME content		mass %	96.5		98.0
Linolenic acid methyl ester		mass %		12	3.6
Polyunsaturated methyl esters (*)		mass %	1.0		<0.5
Density at 15 °C	Q ISO 12185:1996	kg/m ³	860	900	881.3
Viscosity at 40°C	Q ASTM D 7042	mm ² /s	3.50	5.00	4.404
Flash point (PM)	ISO 2719:2016				
Flash point (PM) procedure A		°C	101		156.5
Sulphur (S)	Q EN ISO 20846:2011	mg/kg		10.0	5.0
Derived Cetane Number (DCN)	EN 16715	-	51.0		54.9
Sulphated ash	Q ISO 3987:2010	mass %		0.02	<0.005
Water Karl Fischer	Q EN ISO 12937	mg/kg		350	138
Contamination	Q EN 12662:1998	mg/kg		24	6
Copper corrosion	ISO 2160				
Copper Strip Corrosion (3 hrs / 50°C)		-		1	1a
Oxidation stability	EN 15751	h	8.0		8.8
Acid Number	Q EN 14104:2003	mg KOH/g		0.50	0.35
Iodine value	Q EN 14111:2003	gI ₂ /100g		120	93
Methanol	Q EN 14110:2003	mass %		0.20	<0.05
Glyceride content	EN 14105:2011				
Mono-glyceride		mass %		0.70	0.21
Di-glyceride		mass %		0.20	0.11
Tri-glyceride		mass %		0.20	0.10



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NAME	GRÄNSVÄRDE	UNIT	SPECS		RESULT
			MIN	MAX	
Free glycerol		mass %		0.020	0.020
Total glycerol		mass %		0.25	0.10
Group II metals	EN 14538:2006				
Group I metals (Na+K)		mg/kg		5	<1
Group II metals (Ca+Mg)		mg/kg		5	<1
Phosphorus content	EN 14107:2003	mg/kg		4	<1
Cold Filter Plugging Point	Q EN 116:2015	°C		0	0
Cloud point	Q ISO 3015:1992	°C		5	3

Q: Test with a Q are part of the scope of the DIN EN ISO/IEC 17025:2018 accreditation under number D-PL-14437-01-00 of the DAkKS – Deutsche Akkreditierungsstelle GmbH

Test comments:

Viscosity at 40°C (ASTM D 7042): ASTM D 7042:2017 Water Karl Fischer (EN ISO 12937): EN ISO 12937:2000
Oxidation stability (EN 15751): EN 15751:2014

All results in this report refer to the sample(s) tested as taken or submitted like specified in this Analysis report. Uncertainties, available on request, apply in the evaluation of the test results. All tests are conducted according to the latest version of the methods, unless another version is specifically indicated. Where available and for convenience purposes, the tested sample has been checked for compliance with supplied specifications, without accepting any liability for the supplied information. In case of dispute or concern, we refer to the interpretation of test results as defined in ASTM D3244, IP 367, ISO 4259 or GOST 33701. This report shall not be partially copied and reproduced without the written permission of the laboratory.