

GC Rieber Oils AS  
Teistholmsundet 6  
6512 KRISTIANSUND

**AR-20-MO-010721-01****EUNOMO2-00088355**

Reference: 006-10521-257696

## ANALYTICAL REPORT

---

**Symbol description:**

\* Not part of the accreditation    LOQ: Limit of Quantification    MU: Measurement Uncertainty  
<: Less than    >: Greater than    nd: Not detected.    Bacteriological results such as <1 or <50 means 'not detected'.

Measurement uncertainty is set with a coverage factor of 2. Measurement uncertainty has not been taken into account when assessing the result against the limit value/-area.  
For microbiological analyzes the confidence interval is specified. Further information regarding measurement uncertainty is available upon request.

The results may not be reproduced except in full without a written approval of the laboratory. The results relate only to the sample analysed.  
The results apply to the sample as received.

Sample code:	<b>440-2020-0522-023</b>	Sampled by:			
Description:	TG		1812 TG Fortuna F08/20		
Client Sample:	14271				
Analysis	Result	Unit	LOQ:	MU	Method
b) JCHRD Arsenic (As)	<1	µg/kg	1		DIN EN 15763:2010 (2010-04), mod.
b) JCHRA Lead (Pb)	2.0	µg/kg	1	45%	DIN EN 15763:2010 (2010-04), mod.
b) JCHRB Cadmium (Cd)	<1	µg/kg	1		DIN EN 15763:2010 (2010-04), mod.
b) JCHRC Mercury (Hg)	<1	µg/kg	1		DIN EN 15763:2010 (2010-04), mod.
b) JJW2B Copper (Cu)	<0.1	mg/kg	0.1		DIN EN ISO 17294-2 (2017-01), mod.
b) J1043 Iron (Fe)	<0.5	mg/kg	0.5		EN ISO 11885 (2009-09), mod.
<b>a) Dioxins and Furans (17 PCDD/F)</b>					
a) GFL13 2,3,7,8-TetraCDD	< 0.0597	pg/g			Internal
a) GFL13 1,2,3,7,8-PentaCDD	< 0.0786	pg/g			Internal
a) GFL13 1,2,3,4,7,8-HexaCDD	< 0.119	pg/g			Internal
a) GFL13 1,2,3,6,7,8-HexaCDD	< 0.164	pg/g			Internal
a) GFL13 1,2,3,7,8,9-HexaCDD	< 0.154	pg/g			Internal
a) GFL13 1,2,3,4,6,7,8-HeptaCDD	< 0.252	pg/g			Internal
a) GFL13 OctaCDD	< 1.82	pg/g			Internal
a) GFL13 2,3,7,8-TetraCDF	0.211	pg/g			Internal
a) GFL13 1,2,3,7,8-PentaCDF	< 0.113	pg/g			Internal
a) GFL13 2,3,4,7,8-PentaCDF	< 0.176	pg/g			Internal
a) GFL13 1,2,3,4,7,8-HexaCDF	< 0.186	pg/g			Internal
a) GFL13 1,2,3,6,7,8-HexaCDF	< 0.170	pg/g			Internal
a) GFL13 1,2,3,7,8,9-HexaCDF	< 0.126	pg/g			Internal
a) GFL13 2,3,4,6,7,8-HexaCDF	< 0.154	pg/g			Internal
a) GFL13 1,2,3,4,6,7,8-HeptaCDF	< 0.176	pg/g			Internal
a) GFL13 1,2,3,4,7,8,9-HeptaCDF	< 0.123	pg/g			Internal
a) GFL13 OctaCDF	< 0.377	pg/g			Internal
a) GFL13 WHO(2005)-PCDD/F TEQ (lower-bound)	0.0211	pg/g			Internal
a) GFL13 WHO(2005)-PCDD/F TEQ (medium-bound)	0.175	pg/g			Internal
a) GFL13 WHO(2005)-PCDD/F TEQ (upper-bound)	0.329	pg/g			Internal
<b>a) polychlorinated biphenyls (12 WHO PCB + 6 ICES PCB)</b>					
a) GFL14 PCB 77	< 5.66	pg/g			Internal
a) GFL14 PCB 81	< 0.849	pg/g			Internal
a) GFL14 PCB 105	48.9	pg/g			Internal
a) GFL14 PCB 114	2.22	pg/g			Internal
a) GFL14 PCB 118	135	pg/g			Internal
a) GFL14 PCB 123	1.56	pg/g			Internal
a) GFL14 PCB 126	3.05	pg/g			Internal
a) GFL14 PCB 156	49.9	pg/g			Internal
a) GFL14 PCB 157	13.0	pg/g			Internal
a) GFL14 PCB 167	35.2	pg/g			Internal
a) GFL14 PCB 169	< 3.77	pg/g			Internal
a) GFL14 PCB 189	11.1	pg/g			Internal
a) GFL14 WHO(2005)-PCB TEQ (lower-bound)	0.314	pg/g			Internal
a) GFL14 WHO(2005)-PCB TEQ (medium-bound)	0.371	pg/g			Internal

Symbol description:

\* Not part of the accreditation      LOQ: Limit of Quantification      MU: Measurement Uncertainty  
 <: Less than      >: Greater than      nd: Not detected.      Bacteriological results such as <1 or <50 means 'not detected'.

The results apply to the sample as received.

Measurement uncertainty is set with a coverage factor of 2. Measurement uncertainty has not been taken into account when assessing the limit value/area. For microbiological analyzes the confidence interval is specified. Further information regarding measurement uncertainty is available upon request. The results may not be reproduced except in full without a written approval of the laboratory. The results relate only to the sample analysed.

AR 20-MO-010721-01

EUNOMO2-00088355



a)	GFL14	WHO(2005)-PCB TEQ (upper-bound)	0.428	pg/g		Internal
a)	GFL14	PCB 28	< 0.314	ng/g		Internal
a)	GFL14	PCB 52	< 0.314	ng/g		Internal
a)	GFL14	PCB 101	< 0.314	ng/g		Internal
a)	GFL14	PCB 138	0.602	ng/g		Internal
a)	GFL14	PCB 153	0.869	ng/g		Internal
a)	GFL14	PCB 180	0.738	ng/g		Internal
a)	GFL14	Total 6 ndl-PCB (lower-bound)	2.21	ng/g		Internal
a)	GFL14	Total 6 ndl-PCB (medium-bound)	2.68	ng/g		Internal
a)	GFL14	Total 6 ndl-PCB (upper-bound)	3.15	ng/g		Internal
<b>a) TEQ-Totals WHO-PCDD/F and PCB</b>						
a)	GFTE1	WHO(2005)-PCDD/F+PCB TEQ (lower-bound)	0.335	pg/g		Internal
a)	GFTE1	WHO(2005)-PCDD/F+PCB TEQ (medium-bou	0.546	pg/g		Internal
a)	GFTE1	WHO(2005)-PCDD/F+PCB TEQ (upper-bound)	0.757	pg/g	25%	Internal
<b>b) PAH acc. to EU 2005/108 (15+1)</b>						
b)	JC00V	Benzo(a)pyrene	0.5	µg/kg	0.5	Internal Method
b)	JC00V	Benz(a)anthracene	<0.5	µg/kg	0.5	Internal Method
b)	JC00V	Chrysene	<0.5	µg/kg	0.5	Internal Method
b)	JC00V	Benzo(b)fluoranthene	0.6	µg/kg	0.5	Internal Method
b)	JC00V	Benzo(k)fluoranthene	<0.5	µg/kg	0.5	Internal Method
b)	JC00V	Indeno(1,2,3-cd)pyrene	0.7	µg/kg	0.5	Internal Method
b)	JC00V	Dibenz(a,h)anthracene	<0.5	µg/kg	0.5	Internal Method
b)	JC00V	Benzo(g,h,i)perylene	0.7	µg/kg	0.5	Internal Method
b)	JC00V	Cyclopenta(c,d)pyrene	<1	µg/kg	1	Internal Method
b)	JC00V	Benzo-(c)-fluorene	<1	µg/kg	1	Internal Method
b)	JC00V	Benzo-(j)-fluoranthene	<0.5	µg/kg	0.5	Internal Method
b)	JC00V	Dibenzo(a,e)pyrene	<1	µg/kg	1	Internal Method
b)	JC00V	Dibenzo(a,h)pyrene	<1	µg/kg	1	Internal Method
b)	JC00V	Dibenzo(a,i)pyrene	<1	µg/kg	1	Internal Method
b)	JC00V	Dibenzo(a,l)pyrene	<1	µg/kg	1	Internal Method
b)	JC00V	5-Methylchrysene	<1	µg/kg	1	Internal Method
b)	JC00V	Sum of all positive identified PAH	2.5	µg/kg		Internal Method
b)	JC00V	Sum PAH 4	1.1	µg/kg		Internal Method
<b>a) organochlorine pesticides (27 OCP + endosulfane): food, feed, biota, fishoil, fishmeal, milk powder</b>						
a)	GFB53	Endosulfan I (alpha-endosulfan)	< 1.30	ng/g		Internal
a)	GFB53	Endosulfan II (beta-Endosulfan)	< 1.00	ng/g		Internal
a)	GFB53	Endosulfan sulphate	< 1.00	ng/g		Internal
a)	GFB53	Pentachlorobenzene	< 1.30	ng/g		Internal
a)	GFB53	Hexachlorobenzene (HCB)	< 1.30	ng/g		Internal
a)	GFB53	alpha-HCH	< 0.250	ng/g		Internal
a)	GFB53	beta-HCH	< 0.250	ng/g		Internal
a)	GFB53	gamma-HCH (Lindane)	< 0.250	ng/g		Internal
a)	GFB53	delta-HCH	< 0.250	ng/g		Internal
a)	GFB53	o,p'-DDT	< 0.250	ng/g		Internal
a)	GFB53	p,p'-DDT	< 0.250	ng/g		Internal
a)	GFB53	o,p'-DDE	< 0.250	ng/g		Internal
a)	GFB53	p,p'-DDE	< 0.380	ng/g		Internal
a)	GFB53	o,p'-DDD	< 0.250	ng/g		Internal
a)	GFB53	p,p'-DDD	< 0.630	ng/g		Internal
a)	GFB53	Aldrin	< 0.250	ng/g		Internal
a)	GFB53	Dieldrin	< 0.380	ng/g		Internal
a)	GFB53	Endrin	< 1.30	ng/g		Internal

Symbol description:

\* Not part of the accreditation    LOQ: Limit of Quantification    MU: Measurement Uncertainty  
 <: Less than    >: Greater than    nd: Not detected.    Bacteriological results such as <1 or <50 means 'not detected'.

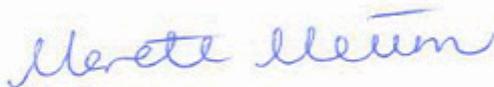
Measurement uncertainty is set with a coverage factor of 2. Measurement uncertainty has not been taken into account when assessing the result against the limit value/-area.  
 The results apply to the sample as received.



a) GFB53 Toxaphene Parlar 26	< 1.30 ng/g	Internal
a) GFB53 Toxaphene Parlar 50	< 1.30 ng/g	Internal
a) GFB53 Toxaphene Parlar 62	< 2.50 ng/g	Internal
a) GFB53 Heptachlor	< 0.250 ng/g	Internal
a) GFB53 Mirex	< 0.250 ng/g	Internal
a) GFB53 cis-Chlordane	< 0.250 ng/g	Internal
a) GFB53 trans-Chlordane	< 0.250 ng/g	Internal
a) GFB53 oxy-Chlordane	< 0.750 ng/g	Internal
a) GFB53 trans-Nonachlor	< 0.250 ng/g	Internal
a) GFB53 cis-Heptachlorepoxide	< 0.380 ng/g	Internal
a) GFB53 trans-Heptachlorepoxide	< 1.30 ng/g	Internal
a) GFB53 Octachlorstyrene	< 0.250 ng/g	Internal
<b>a) PCB 209, polychlorinated biphenyls 209 in total: food, feed, fishoil, fishmeal, feed, biota</b>		
a) GFB01 Total MonoCB	nd	Internal
a) GFB01 Total DiCB	nd	Internal
a) GFB01 Total TriCB	nd	Internal
a) GFB01 Total TetraCB	nd	Internal
a) GFB01 Total PentaCB	0.360 ng/g	Internal
a) GFB01 Total HexaCB	2.11 ng/g	Internal
a) GFB01 Total HeptaCB	1.88 ng/g	Internal
a) GFB01 Total OctaCB	0.510 ng/g	Internal
a) GFB01 Total NonaCB	0.0614 ng/g	Internal
a) GFB01 DecaCB	0.0680 ng/g	Internal
a) GFB01 Total Mono- to DecaCB (lower bound)	4.99 ng/g	Internal
a) GFB01 Total Mono- to DecaCB (medium bound)	5.57 ng/g	Internal
a) GFB01 Total Mono- to DecaCB (upper bound)	6.14 ng/g	Internal

**Test was performed by / subcontractor:**

- a) Eurofins GfA Lab Service GmbH (Hamburg), Neuländer Kamp 1 a, D-21079, Hamburg DIN EN ISO/IEC 17025:2005 D-PL-14629-01-00,  
 b) Eurofins WEJ Contaminants GmbH (Hamburg), Neuländer Kamp 1, D-21079, Hamburg EN ISO/IEC 17025:2005 DAKKS D-PL-14602-01-00,



-----  
 Merete Meum

Analytical Service Manager

**Symbol description:**

\* Not part of the accreditation    LOQ: Limit of Quantification    MU: Measurement Uncertainty  
 <: Less than    >: Greater than    nd: Not detected.    Bacteriological results such as <1 or <50 means 'not detected'.

Measurement uncertainty is set with a coverage factor of 2. Measurement uncertainty has not been taken into account when assessing the result against the limit value/-area. For microbiological analyzes the confidence interval is specified. Further information regarding measurement uncertainty is available upon request. The results may not be reproduced except in full without a written approval of the laboratory. The results relate only to the sample analysed.