



**Commodities International
Shipping and Survey**



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INTERNATIONAL**

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CISS GROUP UKRAINE LLC
member of **CISS GROUP Pte.Ltd. (Singapore)**
5, Odessa Blv., Ovidiopol district,
Lymanka village, Odessa region, 65037
inspection@ciiss-group.com

CERTIFICATE No.: SGD01215

ORIGINAL

ANALYSIS CERTIFICATE ORIGINAL

In pursuance of an order received from our principal, requesting us to carry out inspection we hereby confirm as follows:

Description of goods:	UKRAINIAN CRUDE SUNFLOWER OIL IN BULK
Vessel:	M/T ELIANA
Quantity:	5250,000 MT
B/L No. & Date:	NO.1 DD 05.01.2024
Shipper:	SUNOLTA OU HARJU MAAKOND, TALLINN, KESKLINNA LINNAOSA, JOE TN 4C, 10151 EST5ONIA
Consignee:	TAMPIERI SPA – VIA GRANAROLO N. 177/3 – 48018 FAENZA RAVENNA – ITALY
Notify address:	TAMPIERI SPA – VIA GRANAROLO N. 177/3 – 48018 FAENZA RAVENNA – ITALY
Port of loading:	ODESA, UKRAINE
Port of discharge:	RAVENNA, ITALY
Vessel Tanks Nos.:	1P,2P,3P,4P,5P,1S,2S,3S,4S,5S

RESULTS OF QUALITY INSPECTION

Representative samples of the oil have been drawn from each ship's tank 1P,2P,3P,4P,5P,1S,2S,3S,4S,5S of M/T ELIANA and sealed from vessel's tanks after completion of loading according to FOSFA CONTRACT No.54. One vessel's sample were submitted for analysis to FOSFA approved chemical laboratory. The following results of analysis have been obtained:

Parameter	Method	Specification	Result	LOQ
Total sterols content, mg/kg	ISO 12228-1	from mg/kg 1700 to mg/Kg 5200	3377	0.05 ppm
Cholesterol, %	ISO 12228-1	<= 0,5%	0.1	0.05 %
Brassicasterol, %	ISO 12228-1	<= 0,2%	< 0.05*	0.05 %
Campesterol, %	ISO 12228-1	from 6,5% to 13%	9.1	0.05 %
Stigmasterol, %	ISO 12228-1	from 6,0% to 13%	9.4	0.05 %
β -Sitosterol, %	ISO 12228-1	from 50% to 70%	61.1	0.05 %
Δ 5-Avenasterol, %	ISO 12228-1	<= 6,9%	2.7	0.05 %
Δ 7-Stigmasterol, %	ISO 12228-1	from 6,5% to 24%	10.4	0.05 %
Δ 7-Avenasterol, %	ISO 12228-1	from 3% to 7,5%	3.7	0.05 %

Parameter	Method	Result	LOQ
Arsenic (As), ppm	AGM-17 (ICP-OES)	< 0.05*	0.05 ppm
Cadmium (Cd), ppm	AGM-17 (ICP-OES)	< 0.01*	0.01 ppm
Copper (Cu), ppm	AGM-17 (ICP-OES)	<0.05*	0.05 ppm
Iron (Fe), ppm	AGM-17 (ICP-OES)	0.460	0.05 ppm
Mercury (Hg), ppm	AGM-17 (ICP-OES)	< 0.01*	0.01 ppm
Lead (Pb), ppm	AGM-17 (ICP-OES)	< 0.05*	0.05 ppm
Nickel (Ni), ppm	AGM-17 (CP-OES)	< 0.05*	0.05ppmf





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Parameter	Method	Result	LOQ
Caproic acid C6:0, %	ISO 12966-4	< 0.05*	0.05 %
Caprylic acid C8:0, %	ISO 12966-4	< 0.05*	0.05 %
Capric acid C10:0, %	ISO 12966-4	< 0.05*	0.05 %
Lauric acid C12:0, %	ISO 12966-4	< 0.05*	0.05 %
Myristic acid, C14:0, %	ISO 12966-4	0.1	0.05 %
Palmitic acid C16:0, %	ISO 12966-4	6.3	0.05 %
Palmitoleic acid C16:1, %	ISO 12966-4	0.1	0.05 %
Heptadecanoic acid C17:0, %	ISO 12966-4	< 0.05*	0.05 %
cis-10-Heptadecenoic acid C17:1, %	ISO 12966-4	< 0.05*	0.05 %
Stearic acid C18:0, %	ISO 12966-4	3.2	0.05 %
Oleic acid C18:1n9c, %	ISO 12966-4	29.6	0.05 %
Linoleic acid C18:2n6c, %	ISO 12966-4	59.7	0.05 %
α -Linolenic acid (omega3) C18:3n3, %	ISO 12966-4	0.1	0.05 %
Arachidic acid C20:0, %	ISO 12966-4	0.2	0.05 %
cis-11-Eicosenoic acid C20:1, %	ISO 12966-4	0.1	0.05 %
cis-11,14-Eicosadienoic acid C20:2, %	ISO 12966-4	< 0.05*	0.05 %
Behenic acid C22:0, %	ISO 12966-4	0.5	0.05 %
Erucic acid C22:1n9, %	ISO 12966-4	< 0.05*	0.05 %
cis-13,16-Docosadienoic acid C22:2, %	ISO 12966-4	< 0.05*	0.05 %
Lignoceric acid C24:0, %	ISO 12966-4	0.1	0.05 %
Nervonic acid C24:1, %	ISO 12966-4	< 0.05*	0.05 %

Test Description	Method	LOQ**	Units	Results
MOSH: => C10 - <=C16	EN 16995:2017	2,0	mg/kg	<2,0
MOSH: > C16 - <=C20	EN 16995:2017	2,0	mg/kg	<2,0
MOSH: > C20 - <=C25	EN 16995:2017	2,0	mg/kg	<2,0
MOSH: > C25 - <=C35	EN 16995:2017	2,0	mg/kg	<2,0
MOSH: > C35 - <=C40	EN 16995:2017	2,0	mg/kg	<2,0
MOSH: > C40 - <=C50	EN 16995:2017	2,0	mg/kg	<2,0
MOSH (C10-C50): Total	EN 16995:2017	2,0	mg/kg	<2,0
MOAH: => C10 - <=C16	EN 16995:2017	1,0	mg/kg	<1,0
MOAH: > C16 - <=C25	EN 16995:2017	1,0	mg/kg	<1,0
MOAH: > C25 - <=C35	EN 16995:2017	1,0	mg/kg	<1,0
MOAH: > C35 - <=C50	EN 16995:2017	1,0	mg/kg	<1,0
MOAH (C10-C50):Total	EN 16995:2017	2,0	mg/kg	<2,0



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Test Description	Method***	Units****	Results
Sum of dioxins (WHO-PCDD/Fs-TEQ)	EN 16215:2020	pg/g fat	<0,75
Sum of dioxins and dioxin-like PCBs (WHO-PCDD/Fs-PCB-TEQ)	EN 16215:2020	pg/g fat	<1,25
Sum of PCBs non-dioxin-like	EN 16215:2020	ng/g fat	<40
2,3,7,8-TCDD	EN 16215:2020	pg/g fat	<0,04
1,2,3,7,8-PeCDD	EN 16215:2020	pg/g fat	<0,04
1,2,3,4,7,8-HxCDD	EN 16215:2020	pg/g fat	<0,01
1,2,3,6,7,8-HxCDD	EN 16215:2020	pg/g fat	<0,01
1,2,3,7,8,9-HxCDD	EN 16215:2020	pg/g fat	<0,01
1,2,3,4,6,7,8-HpCDD	EN 16215:2020	pg/g fat	<0,001
OCDD	EN 16215:2020	pg/g fat	0,00006
2,3,7,8-TCDF	EN 16215:2020	pg/g fat	0,004
1,2,3,7,8-PeCDF	EN 16215:2020	pg/g fat	<0,0012
2,3,4,7,8-PeCDF	EN 16215:2020	pg/g fat	<0,012
1,2,3,4,7,8-HxCDF	EN 16215:2020	pg/g fat	<0,01
1,2,3,6,7,8-HxCDF	EN 16215:2020	pg/g fat	<0,01
2,3,4,6,7,8-HxCDF	EN 16215:2020	pg/g fat	<0,01
1,2,3,7,8,9-HxCDF	EN 16215:2020	pg/g fat	<0,01
1,2,3,4,6,7,8-HpCDF	EN 16215:2020	pg/g fat	<0,001
1,2,3,4,7,8,9-HpCDF	EN 16215:2020	pg/g fat	<0,001
OCDF	EN 16215:2020	pg/g fat	<0,00006
dioxin-like PCB 77	EN 16215:2020	pg/g fat	0,0005
dioxin-like PCB 81	EN 16215:2020	pg/g fat	<0,00015
dioxin-like PCB 126	EN 16215:2020	pg/g fat	<0,05
dioxin-like PCB 169	EN 16215:2020	pg/g fat	<0,015
dioxin-like PCB 105	EN 16215:2020	pg/g fat	0,0006
dioxin-like PCB 114	EN 16215:2020	pg/g fat	<0,0003
dioxin-like PCB 118	EN 16215:2020	pg/g fat	0,001
dioxin-like PCB 123	EN 16215:2020	pg/g fat	<0,0003
dioxin-like PCB 156	EN 16215:2020	pg/g fat	<0,0003
dioxin-like PCB 157	EN 16215:2020	pg/g fat	<0,0003
dioxin-like PCB 167	EN 16215:2020	pg/g fat	<0,0003
dioxin-like PCB 189	EN 16215:2020	pg/g fat	<0,0003
non-dioxin-like PCB 28	EN 16215:2020	ng/g fat	<0,100
non-dioxin-like PCB 52	EN 16215:2020	ng/g fat	<0,100
non-dioxin-like PCB 101	EN 16215:2020	ng/g fat	<0,100



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non-dioxin-like PCB 138	EN 16215:2020	ng/g fat	<0,100
non-dioxin-like PCB 153	EN 16215:2020	ng/g fat	<0,100
non-dioxin-like PCB 180	EN 16215:2020	ng/g fat	<0,100
TEQ (WHO) for PCDD/Fs including LOQ for non-quantified congener	EN 16215:2020	pg/g fat	0,170
TEQ (WHO) for dioxin-like PCBs including LOQ for non-quantified congener	EN 16215:2020	pg/g fat	0,069
TEQ (WHO) for PCDD/Fs + dioxin-like PCBs including LOQ for non-quantified congener	EN 16215:2020	pg/g fat	0,239
Non-dioxin-like PCBs	EN 16215:2020	ng/g fat	0,600

* No analyte at a content above the limit of Quantification was detected.

LOQ (Limit of quantification) - is the lowest amount or concentration of analyte in a sample, which can be reliably quantified with an acceptable level of precision and accuracy.

**LOQ — limit of quantification.

***In accordance with Directive (EU) nr. 2017/644 (for Food).

****Content of PCDD/Fs and dioxin-like PCBs is recalculated to Toxic Equivalents (TEQ) values excluding non-dioxin-like PCBs.

This certificate is electronically signed and stamped.

DATED: 12th of JANUARY, 2024

For and on behalf of CISS GROUP Ukraine LLC

Registered Superintendent and Surveyor Member of FOSFA



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