



**Commodities International
Shipping and Survey**



**FOSFA
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.: SGD01450

ORIGINAL

CERTIFICATE OF ANALYSIS

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

Description of goods:	CRUDE SUNFLOWERSEED OIL, IN BULK OF EDIBLE GRADE (FIT FOR HUMAN CONSUMPTION AFTER APPROPRIATE REFINING)
Vessel:	M/T VITIS
Quantity:	5900,000 MT
B/L No. & Date:	NO. 1 DD 11.03.2025
Shipper:	SUNOLTA (SUISSE) SA RUE DU 23-JUIN 26, 2800 DELEMONT, SWITZERLAND REG.NO. CHE-345.676.000 ON BEHALF OF TOI COMMODITIES SA, CHEMIN DU POMMIER 42, KYOTO, 1218 LE GRAND-SACONNEX, SWITZERLAND
Consignee:	TO ORDER
Notify address:	TOI COMMODITIES SA CHEMIN DU POMMIER 42, KYOTO, 1218 LE GRAND-SACONNEX, SWITZERLAND
Port of loading:	ODESA, UKRAINE
Port of discharge:	CONSTANTA, ROMANIA
Vessel Tanks Nos.:	1P, 2P, 3P, 4P, 5P, 6P, 7P,8P, 9P, 10P, 11P,1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S, 9S ,10S,11S

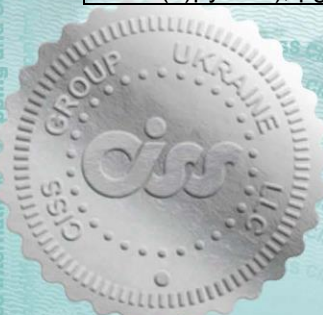
RESULTS OF QUALITY INSPECTION

Representative samples of the oil have been drawn from each ship's tank 1P, 2P, 3P, 4P, 5P, 6P, 7P,8P, 9P, 10P, 11P,1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S, 9S ,10S,11S of MT VEYSEL VARDAL 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	Result*	LOQ
Hydrocarbon content attributed to mineral origin (C10-C56), ppm (mg/kg)	ISO 17780	< 50*	50 ppm (mg/kg)
Mineral oil (C10-C24), ppm (mg/kg)	ISO 17780	< 50*	50 ppm (mg/kg)

Parameter	Method	Specification	Result	LOQ
CHOLESTEROL	ISO 12228-1	MAX 0.5%	0.1	0.05 %

Parameter	Method	Result
Benz(a)anthracene, µg/kg (ppb)	ISO 15753	2.8
Chrysene, µg/kg (ppb)	ISO 15753	3.2
Benzo(b)fluoranthene, µg/kg (ppb)	ISO 15753	1.8
Benzo(a)pyrene, µg/kg (ppb)	ISO 15753	1.9
Total polycyclic aromatic hydrocarbons content (Sum of Benz(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene), µg/kg (ppb)	ISO 15753	9.7





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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)	1.346	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

Parameter	Method	Result	LOQ
Total sterols content, mg/kg (ppm)	ISO 12228-1	3383	0.05 ppm
Cholesterol, %	ISO 12228-1	0.1	0.05 %
Cholestanol, %	ISO 12228-1	< 0.05*	0.05 %
Brassicasterol, %	ISO 12228-1	< 0.05*	0.05 %
24-Methylene cholesterol, %	ISO 12228-1	< 0.05*	0.05 %
Campesterol, %	ISO 12228-1	8.2	0.05 %
Campestanol, %	ISO 12228-1	< 0.5*	0.05 %
Stigmasterol, %	ISO 12228-1	9.2	0.05 %
Δ7-Campesterol, %	ISO 12228-1	4.1	0.05 %
Δ5,23-Stigmastadienol, %	ISO 12228-1	< 0.05*	0.05 %
Clerosterol, %	ISO 12228-1	< 0.05*	0.05 %
β-Sitosterol, %	ISO 12228-1	57.2	0.05 %
Sitostanol, %	ISO 12228-1	< 0.05*	0.05 %
Δ5-Avenasterol, %	ISO 12228-1	2.2	0.05 %
Δ5,24-Stigmastadienol, %	ISO 12228-1	< 0.05*	0.05 %
Δ7-Stigmastanol, %	ISO 12228-1	14.5	0.05 %
Δ7-Avenasterol, %	ISO 12228-1	4.5	0.05 %

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	0,00007
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	<0,001
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



This certificate is issued to any job or services carried out within the GENERAL TERMS AND CONDITION OF BUSINESS printed overleaf. This certificate is not intended to relieve the parties of any relevant sales contract from their contractual obligations. The Company's responsibility under this Certificate is limited to proven negligence and will in no case be more than ten times the amount of the fees.



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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	0,00009
dioxin-like PCB 81	EN 16215:2020	pg/g fat	0,0002
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	<0,0003
dioxin-like PCB 114	EN 16215:2020	pg/g fat	<0,0003
dioxin-like PCB 118	EN 16215:2020	pg/g fat	0,0007
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
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	0,068
TEQ (WHO) for PCDD/Fs + dioxin-like PCBs including LOQ for non-quantified congener	EN 16215:2020	pg/g fat	0,238
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.

**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 MARCH, 2025

For and on behalf of CISS GROUP Ukraine LLC
Registered Superintendent and Surveyor Member of FOSFA

