



**Commodities International
Shipping and Survey**



CISS Group PTE. LTD.

10, Anson Road, #29-05 A, International Plaza, Singapore, 079903.

e-mail: inspection@ciiss-group.com

Page 1/2

CERTIFICATE No.: UA01269/1

ORIGINAL

QUALITY AND ANALYSIS CERTIFICATES

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:	MT HIRA V
Quantity:	3003,200 MT
B/L No. & Date:	NO.1 DD 21.05.2022
Shipper:	"ODESKA TORGOVA KOMPANIA" LLC Ukraine, Odessa region, Odessa, Church str.,19 ON BEHALF OF BSS GROUP LTD
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:	IZMAIL, UKRAINE
Port of discharge:	RAVENNA, ITALY
Vessel Tanks Nos.:	1P, 2P, 3P, 4P, 5P, 6P, 1S, 2S, 3S, 4S, 5S, 6S AND SLOP C

RESULTS OF QUALITY INSPECTION

Representative samples of the oil have been drawn from each ship's tank 1P, 2P, 3P, 4P, 5P, 6P, 1S, 2S, 3S, 4S, 5S, 6S AND SLOP C of MT HIRA V and sealed from vessel's tanks after competition 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	Results
Moisture	ISO 662:2016	0,15%
Impurities	ISO 663	0,04%
FFA as oleic acid	ISO 660:2009	0,73%
Phosphorus content	ISO 10540-1:2003	151,2 ppm
Hexane content	ISO 9832	89 mg/kg (ppm)
Flash point at 121°C	ISO 15267:1998	no flash
Benzo[a]pyrene content,	ISO 15302	1,90 µg/kg(ppb)
Density	ISO 6883	0,9187 g/cm3
Smell	Organoleptic	norm





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Page 2/2

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Parameter	Method	Result	LOQ
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 %
Myristoleic acid, C14:1, %	ISO 12966-4	< 0.05*	0.05 %
Palmitic acid C16:0, %	ISO 12966-4	6.1	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	3.5	0.05 %
Oleic acid C18:1n9c, %	ISO 12966-4	29.7	0.05 %
Linoleic acid C18:2n6c, %	ISO 12966-4	59.0	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	0.7	0.05 %
Erucic acid C22:1n9, %	ISO 12966-4	< 0.05*	0.05 %
Lignoceric acid C24:0, %	ISO 12966-4	0.3	0.05 %
Nervonic acid C24:1, %	ISO 12966-4	ND	0.05 %

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)

*-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.

DATED: 26th of MAY, 2022

For and on behalf of CISS GROUP Ukraine LLC

Registered Superintendent and Surveyor Member of FOSFA

