



Commodities International
Shipping and Survey



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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.: UA01509

ORIGINAL

FATTY ACID COMPOSITION CERTIFICATE

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

Description of goods:	UKRAINIAN ORIGIN CRUDE SUNFLOWER SEED OIL, IN BULK
Vessel:	MT BARBAROS HAYRETTİN VARDAL
Quantity:	5352,470 MT
B/L No. & Date:	NO. 1 DD 28.02.2023
Shipper:	LIMITED LIABILITY COMPANY "PANCRAS" 65089, Ukraine, Odessa, str. Akademika Williamsa, 59-E, office 22 ON BEHALF OF AGRO TRADE GLOBAL FZE
Consignee:	TO ORDER
Notify address:	REKA BITKISEL YAGLAR SAN. VE TIC. A.S. Barbaros Mah. Morsümbül Sok. No:1 Varyap Meridian Business I Blok Kat:6 Ofis 81-87 Batı Ataşehir 34746 Phone: +90 216 687 17 00 - Fax: +90 216 687 17 10
Port of loading:	IZMAIL, UKRAINE
Port of discharge:	TEKIRDAG PORT / TURKEY
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 MT BARBAROS HAYRETTİN VARDAL 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	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	3.1	0.05 %
Oleic acid C18:1n9c, %	ISO 12966-4	32.7	0.05 %
Linoleic acid C18:2n6c, %	ISO 12966-4	56.3	0.05 %
α-Linolenic acid (omega3) C18:3n3, %	ISO 12966-4	0.1	0.05 %





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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 %
cis-13,16-Docosadienoic acid C22:2, %	ISO 12966-4	< 0.05*	0.05 %
Lignoceric acid C24:0, %	ISO 12966-4	0.2	0.05 %
Nervonic acid C24:1, %	ISO 12966-4	ND	0.05 %

*-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.

The results of inspection are valid for the time and place of inspection only.

This certificate is electronically signed and stamped.

DATED: 2nd of MARCH, 2023

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

