Commodities International Shipping and Survey

CISS Group PTE. LTD.
10, Anson Road, #29-05 A, International Plaza, Singapore, 079903.
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CERTIFICATE No.: UA01269/2

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.2 DD 21.05.2022
Shipper:	LLC "MEISEN" 54001, MYKOLAYIV REG., MYKOLAYIV, NIKOLSKAYA STR., BLDG. 61/11 ON BEHALF OF AGRO TRADE GLOBAL FZC
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 asid	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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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