



CISS Group PTE. LTD.

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

e-mail: inspection@ciiss-group.com

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CERTIFICATE No.: SGD00822

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: M/T «TORC»
Quantity: 8100,000 MT
B/L No. & Date: NO.1 DD 28.11.2022
SUNOLTA OU
Shipper: HARJU MAAKOND, TALLINN,
KESKLINNA LINNAOSA,
JOE TN 4C, 10151, ESTONIA
REGISTRATION NUMBER: 14785565
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: ODESSA, UKRAINE
Port of discharge: RAVENNA, ITALY
Vessel Tanks Nos.: 2P/S, 3P/S, 4P/S AND 5P/S

RESULTS OF QUALITY INSPECTION

Representative samples of the oil have been drawn from each ship's tank 2P/S, 3P/S, 4P/S AND 5P/S of M/T «TORC» 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	Results
Moisture	ISO 662:2016	0,13%
Impurities	ISO 663	
FFA as oleic acid	ISO 660:2009	0,55%
Phosphorus content	ISO 10540-1:2003	65,0 ppm
Hexane content	ISO 9832	80 mg/kg (ppm)
Flash point at 121°C	ISO 15267:1998	No flash at 121 °C
Benzo[a]pyrene content	ISO 15302	1,80 µg/kg(ppb)
Radioactivity CS 134/137		Free from radioactivity





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Parameter	Method	Result	LOQ
Myristic acid, C14:0, %	ISO 12966-4	0.1	0.05 %
Palmitic acid C16:0, %	ISO 12966-4	6.4	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	29.5	0.05 %
Linoleic acid C18:2n6c, %	ISO 12966-4	59.5	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	0.2	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	0.1	0.05 %
Nervonic acid C24:1, %	ISO 12966-4	< 0.05*	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.

This certificate is electronically signed and stamped.

DATED: 2nd DECEMBER, 2022

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

