



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.: UA01135

ORIGINAL

CERTIFICATE OF ANALYSIS

Description of goods: UKRAINIAN CRUDE SUNFLOWERSEED OIL, IN BULK
Vessel: MT VEYSEL VARDAL
Quantity: 2999,680 MT
B/L No. & Date: NO. 1 AND 2 DD 15.09.2021
Shipper: "ODESKA TORGOVA KOMPANIA" LLC
Ukraine, Odessa region,
Odessa, Church str.,19
LLC «MEISEN»
Ukraine 54001, Nikolaev, Nikolskaya str., building 61/11
Consignee: TO ORDER
Notify address: F. FAIGES S.L.
CALLE COMERCIO 64
43500 TORTOSA (TARRAGONA) SPAIN
TEL.+34. 977-500.200 +34.669.86.59.54
fax.+34.977.50.20.22
Port of loading: IZMAIL, UKRAINE
Port of discharge: SAGUNTO, SPAIN
Vessel Tanks Nos.: 1C, 2C, 3C, 4C AND 5C

RESULTS OF QUALITY INSPECTION

Representative samples of the oil have been drawn from each ship's tank 1C, 2C, 3C, 4C AND 5C 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:

Test Description	Method	Unit	Result
Moisture and volatile matter	ISO 662:2016	%	0,14
Insoluble impurities	ISO 663:2017	%	0,05
FFA	ISO 660:2009	%	0,48
Flash point at 121 °C	ISO 15267:1998	n/a	No flash
Phosphorus content	ISO 10540-1:2003	ppm	108





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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	<0,00006
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	<0,0012
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
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	<0,00015
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	0,0005
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



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Test Description	Method**	Units***	Results
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

Test Description	Method	LOQ*	Units	Results
MERCURY	EN 13806:2002	0,050	mg/kg	ND,less than 0,050
LEAD	ISO 12193:2004	0,050	mg/kg	ND,less than 0,050
CADMIUM	ISO 15774:2000	0,010	mg/kg	ND,less than 0,010
COPPER	ISO 8294:1994	0,400	mg/kg	ND,less than 0,400
IRON	ISO 8294:1994	1,000	mg/kg	ND,less than 1,000
ARSENIC	EN 14627:2005	0,050	mg/kg	ND,less than 0,050





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Test Description	Method	Units	LOQ*	Results
Capronat acid (C6:0)	DSTU ISO 5508-2001	%	0,05	ND,less than 0,05
Caprylat acid (C8:0)		%	0,05	ND,less than 0,05
Caprycat acid (C10:0)		%	0,05	ND,less than 0,05
Lauriat acid (C12:0)		%	0,05	ND,less than 0,05
Myristat acid (C14:0)		%	0,05	0,07
Palmitat acid (C16:0)		%	0,05	5,97
Palmitoleic acid (C16:1)		%	0,05	0,11
Margaric acid (C17:0)		%	0,05	ND,less than 0,05
Heptadecenoic acid (C17:1)		%	0,05	ND,less than 0,05
Stearat acid (C18:0)		%	0,05	3,21
Oleat acid (C18:1)		%	0,05	33,64
Linoleat acid (C18:2)		%	0,05	55,51
Linolenat acid (C18:3)		%	0,05	0,05
Arachidate acid (C20:0)		%	0,05	0,23
Gadoleic acid (C20:1)		%	0,05	0,14
Eicosadienoic acid (C20:2)		%	0,05	ND,less than 0,05
Behenat acid (C22:0)		%	0,05	0,67
Erucate acid (C22:1)		%	0,05	ND,less than 0,05
Docosadienoic acid (C22:2)		%	0,05	ND,less than 0,05
Lignocerat acid (C24:0)		%	0,05	0,26
Nervonic acid (C24:1)		%	0,05	ND,less than 0,05
Mineral oil (Hydrocarbons C10-C56)	ISO 17780:2015	mg/kg	20,0	ND,less than 20

Test Description	MRL	Method	LOQ*	Units	Results
Aflatoxin B1	NS	DSTU EN 12955-2001	1,0	µg/kg	ND,less than 1,0
Sum of aflatoxins B1,B2,G1,G2	NS	DSTU EN 12955-2001	2,5	µg/kg	ND,less than 2,5



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Test Description	Method	Units	Results
Cholesterol	ISO 12228-1:2014	%	0,10
Brassicasterol		%	ND, less than 0,10
Campesterol		%	9,03
Stigmasterol		%	8,29
Beta-sitosterol		%	55,90
Delta-5-avenasterol		%	4,78
Delta-7-stigmastenol		%	12,40
Delta-7-avenasterol		%	4,32
Total sterols		mg/kg	3827,8

Test Description	Method	LOQ*	Units	Results
Benzo[a]pyrene	ISO 15753:2016	0,2	µg/kg	0,5
Benz(a)anthracene	ISO 15753:2016	0,2	µg/kg	0,8
Benz(b)fluoranthrene	ISO 15753:2016	0,3	µg/kg	0,7
Chrysene	ISO 15753:2016	0,2	µg/kg	1,7
Acetamiprid	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Aldrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Amitraz	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Acephate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Azinphos-methyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Acetochlor	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Alachlor	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Atrazine	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Azoxystrobin	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
Anthraquinone	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Bifenthrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Boscalid (Nicobifen)	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
Biphenyl	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Bromopropylate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Captafol	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Carbaryl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Carbofuran	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Carboxin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
Chlordane	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Chlorothalonil	EN 1528:1996	0,010	mg/kg	ND, less than 0,010





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Chlorfenvinphos	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Chlorpyrifos	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Chlorpyrifos-methyl	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Cyfluthrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Cyhalothrin-Lambda	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
Cypermethrin	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
Cyproconazole	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Cyprodinil	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
DDT	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
DDD	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
DDE	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Dimethoate	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Deltamethrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Diazinon	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Dichlorvos	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Dieldrin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Difenoconazole	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Disulfoton	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Endosulfan	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
Endosulfan alfa	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
Endosulfan beta	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
Endosulfan sulfate	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
Endrin	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Ethion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Ethoxyquin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
Famaxodone	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Fenitrothion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Fenthion	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Fipronil	EN 1528:1996	0,005	mg/kg	ND, less than 0,005
Fenvalerate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Fludioxonil	EN 1528:1996	0,010	mg/kg	ND, less than 0,010



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Heptachlor	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Heptachlor epoxide	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Haloxypomethyl	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
Haloxypop-p-methyl	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
Hexachlorobenzene (HCB)	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
HCH alfa isomer	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
HCH beta isomer	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
HCH gamma isomer (Lindane)	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Imazalil	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Iprodione	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Isoprothiolane	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Linuron	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Malathion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Metalaxyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Methamidophos	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Methidathion	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Methoxychlor	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Monocrotophos	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Metazachlor	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Mepiquat	EN 15662:2018	0,500	mg/kg	ND, less than 0,500
Methomyl	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Naled	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
Nitrofen	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Omethoate	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Oxadixyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Ortho-phenyl phenol	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Phorate	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Parathion-methyl	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Pendimethalin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Permethrin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
Pirimiphos-methyl	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
Prochloraz	EN 1528:1996	0,100	mg/kg	ND, less than 0,100
Procymidone	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Propiconazole	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Phosphamidone	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Simazine	EN 1528:1996	0,010	mg/kg	ND, less than 0,010





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Tetramethrin	EN 1528:1996	0,050	mg/kg	ND, less than 0,050
Tebuconazole	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Thiamethoxam	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Trifloxystrobin	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Trichlorfon	EN 1528:1996	0,020	mg/kg	ND, less than 0,020
Trifluralin	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Terbufos	EN 1528:1996	0,010	mg/kg	ND, less than 0,010
Vinclozolin	EN 1528:1996	0,020	mg/kg	ND, less than 0,020

Remarks:

*LOQ — limit of quantification.

**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.

The oil is homogeneous, of good, sound and merchantable quality.

DATED: 17 SEPTEMBER, 2021

For and on behalf of CISS GROUP Ukraine LLC

Registered Superintendent and Surveyor Member of FOSFA

