

ANALYTICAL REPORT No: ODL 0640-300

TEST REPORT

In pursuance of the order received from:
TRADE LTD, UKRAINE

to carry out instructions summarized as:
TESTING

of a consignment described as follows:

Sample: 4 bottles of refined deodorized winterized sunflower-seed oil TM

Production date and time as per marking: 29/09/06; 11:24:49, 11:24:49, 11:24:50, 11:24:52

We report as follows:

Receiving date : 09.10.2006

Testing date : 09.10.2006 – 16.10.2006

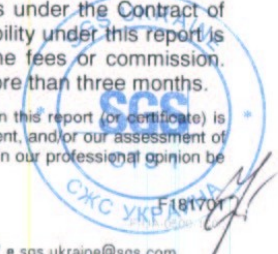
TESTING

4 bottles provided by the client were used for further composite samples preparation in accordance with Client's instructions. 2 composite samples were prepared and submitted to the reputable laboratories which report the analyses results as follows:

#	Test	Method	Units	Result
1	Moisture and Volatile Matter	ISO 662:1998	%	<0.01
2	Insoluble Impurities	ISO 663:2000	%	0
3	Moisture, Volatile Matter and Insoluble Impurities	By calculation	%	<0.01
4	Acidity (FFA)	ISO 660:1996	%	0.03
5	Acid value	ISO 660:1996	Mg KOH	0.06
6	Saponification value	ISO 3657:2002	Mg KOH/g	188
7	Unsaponifiable matter content (correction for FFA was used)	ISO 3596:2000	%	0.63
8	Iodine value	ISO 3961:1996	g / 100 g	133
9	Peroxide value	ISO 3960:2001	meq/kg	1.85
10	Peroxide value	ISO 3960:2001	Mmol/kg	0.93

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The report (or certificate) reflects the results of inspection at time and place of inspection. The information stated in this report (or certificate) is derived from the results of inspection or testing procedures carried out in accordance with the instructions of our Client, and/or our assessment of such results on the basis of any technical standards, trade custom or practice, or other circumstances which should in our professional opinion be taken into account.



ANALYTICAL REPORT No: ODL 0640-300

11	Phosphorated substances content calculated on P ₂ O ₅	GOST 7824:80	%	0
12	Flash Point (at 121°C)	ISO 15267:1998	---	No flash
13	Soap	GOST 5480-59	---	Negative
14	Conventional Mass per Volume (Specific weight) at 20° C	ISO 6883:2000	g/ml	0.9188
15	Organoleptical Tests:	GOST 5472-50	---	
	- transparency		---	Transparent without sediment
	- flavor		---	Indefinable oil flavor
	- odor		---	Odorless
16	Fatty Acids Composition:	ISO 5508, ISO 5509		
	- Myristic Acid C14:0		%	0.07
	- Palmitic Acid C16:0		%	6.33
	- Palmitoleic Acid C16:1		%	0.09
	- Stearic Acid C18:0		%	3.27
	- Oleic Acid C18:1		%	23.71
	- Linoleic Acid C18:2		%	64.65
	- Linolenic Acid C18:2		%	0.06
	- Arachidic Acid C20:0		%	0.22
	- Eicosenoic Acid C20:1		%	0.14
	- Behenic Acid C22:0		%	0.60
- Lignoceric Acid C24:0		%	0.23	
17	Metals and Arsenic:			
	- Arsenic	TP-273	mg/kg	<0.05
	- Cadmium	TP-273	mg/kg	<0.005
	- Lead	TP-273	mg/kg	0.07
	- Mercury	TP-273	mg/kg	<0.005
	- Zink	TP-273	mg/kg	0.3
	- Copper	TP-273	mg/kg	<0.02
- Iron	TP-273	mg/kg	0.22	
18	Radioactivity:			
	Caesium 134 and Caesium 137	(1)	Bq/kg	<2
	Strontium 90	(2)	Bq/kg	<22





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(1) Method carrying out measuring by gamma-spectrometer MI 2143-91. Approved by USSR State Committee of Standards, 01.03.91

(2) Method carrying out measuring using scintillation spectrometers and AK-1 software. Approved by GNPO "Metrology" and agreed by Ukrainian Ministry of Health, 15.06.98.

The above analysis report refers to time and place of testing only on supplied sample.
This is not a Certificate of Quality and for information only.

Signed and dated in Odessa
The 16th of October, 2006
CTS/ N.K.

For and on behalf of
SGS Ukraine

