

**FOSFA COMBINED MASTERS CERTIFICATE**

Ship MT KARRUCA Voyage No 19/2021  
Year Built 2001 Official No 2584510  
Owners Beykim Petrolcülük Gemi İst. San. Ve Tic A.S. Operator Nakl.Petr.Tic.A.s  
CRUDE SUNFLOWER SEED OIL - UKRAINE  
In respect of carriage of (tonnage) 6001,500 Description ORIGIN, IN BULK. FOR FOOD USE AFTER  
Loaded/Ex Transhipment at IZMAIL, UKRAINE For shipment to Monopoli, Italy  
(Load Port) (Discharge Port)  
In Ships Tanks No(s) 1P,1S,2P,2S,3P,3S,4P,4S,5P,5S,6P,6S,7P,7S,8P,8S,9P,9S.  
\*Shippers/Charterers "ODESKA TORGOVA KOMPANIA" LLC, "IZMAIL-TRANSBULKTERMINAL" LLC, LLC «MEISEN»

I state that -

- The above named vessel is classed with (Society) Nippon Kaiji Kyokai Certificate No. 21SQ0279-CLS  
issued at Tokyo dated 1 February 2021 which currently remains in force.  
The oil tight integrity of all cargo compartments is a condition of such classification.
- The named ship complies with the FOSFA Qualifications and Operational Procedures for Ships Engaged in the Carriage of Oils and Fats in Bulk for Edible and Oleo-Chemical use.
- Tank heating is by ~~\*immersed coils~~/heat exchangers. Coils, tubes and shell as applicable are of stainless steel construction, and were tested on 28.09.2021 (date) to not less than 6 kPa / bars for a period of 5 minutes and found tight.
- Copper and its alloys such as brass, bronze or gun metal are not present in any part of the system installation and means of transport that has contact with the oils or fats.
- Tank access/cleaning hatches are staunch and tight with suitable packing and gaskets compatible with the cargo.
- All internal structural members are self-draining.
- Tank(s) is (are) ~~\*mild steel/mild steel coated~~/stainless steel construction.
- Where applicable tank coating(s) is (are) - which is (are) fit for food grade products/carriage of oils and fats.
- In the tank heating system, heating medium is ~~\*hot water, live steam~~.
- For contamination control purposes, if the vessel also has a thermal heating fluid system, the thermal heating fluid is: n/a
- Cargo lines are ~~\*stainless steel/mild steel~~ with sufficient drain valves to ensure complete clearing and draining of the system.
- The tank(s) has (have) not contained, as the last three cargoes, any leaded products.
- Cargo History - the previous cargoes were as follows:


Ships Tanks No	Last Cargo	Second Last Cargo	Third Last Cargo	Etc
1P / 1S	PHOSPHORIC ACID (72%) / (75%)	PHOSPHORIC ACID (85%) / (79%)	PHOSPHORIC ACID (65.5%) / (61%)	-----
2P / 2S	PURIFIED PHOSPHORIC ACID (92%)/(84%)	PHOSPHORIC ACID (82%) / (75%)	PHOSPHORIC ACID (82%) / (78%)	-----
3P / 3S	PHOSPHORIC ACID (81%) / (82%)	SUNFLOWERSEED OIL (89.9%)/(89.9%)	SUNFLOWERSEED OIL (73%)/(75%)	-----
4P	PHOSPHORIC ACID (75%)	PHOSPHORIC ACID (82%)	PHOSPHORIC ACID (81%)	-----
4S	PHOSPHORIC ACID (75%)	PURIFIED PHOSPHORIC ACID (88%)	PHOSPHORIC ACID (87%)	-----
5P / 5S	PHOSPHORIC ACID (80%) / (80%)	PURIFIED PHOSPHORIC ACID (92%)/(91%)	PHOSPHORIC ACID (82%) / (87%)	-----
6P / 6S	PHOSPHORIC ACID (80%) / (80%)	PHOSPHORIC ACID (90%) / (80%)	PHOSPHORIC ACID (84%) / (84%)	-----
7P / 7S	PHOSPHORIC ACID (86%) / (88%)	PURIFIED PHOSPHORIC ACID (92%)/(80%)	PHOSPHORIC ACID (88%) / (89%)	-----
8P / 8S	PHOSPHORIC ACID (85.3%) / (87.7%)	CAUSTIC SODA SOLUTION (90%)/(90%)	PHOSPHORIC ACID (84%) / (88%)	-----
9P / 9S	PHOSPHORIC ACID (90%) / (90%)	PURIFIED PHOSPHORIC ACID (89%)/(83%)	PHOSPHORIC ACID (86%) / (90%)	-----

In the event that a cargo was less than 60% of volume of the tank, such cargo to be recorded but is not to be considered a qualifying previous cargo. Such cargo not to be a product on the FOSFA List of Banned Immediate Previous Cargoes or to be a product on the FOSFA List of Acceptable Previous Cargoes; whichever list to apply, dictated by the sales contract.

14. Subject tanks have been cleaned after immediate previous cargoes using cleaning methods as noted below:

- 1.Butterworth with fresh water for 10 minutes
- 2.Butterworth with abundant sea water for 2.5 hrs
- 3.Rinse with ambient fresh water for 20 minutes
- 4.Draining of tank, line and pump
- 5.Ventilation, Mopping, Drying

15. Subject tank ~~were~~ / were not \*re-coated prior to loading.

All information in the Combined Masters Certificate obtained from the  representative is the sole responsibility of the vessel.

Signed \_\_\_\_\_  
Ship MT KARRUCA  
Date 15.10.2021  
\*Delete which is inapplicable.

Captain/Chief Officer

Doser Yasun

