



Ministry for Development
of Communities
and Territories of Ukraine

UKRAINIAN DANUBE FLEET

ES-TRIN 2025/1



GENESIS OF DANUBE TECHNICAL RULES AND REGULATIONS



Ministry for Development
of Communities
and Territories of Ukraine

Genera- tion	Period of validity	Basic technical regulations for Ukrainian ships	Additional documents taken into consideration during the ship design process	Main distinctive features	Ukrainian Danube ships and designed operation Zones
5	2026 2005	Rules for the Classification and Construction of Inland Navigation Ships, by Ukrainian Register of Shipping, 2022 <i>as amended</i>	ES-TRIN 2017-2025/1; DC Recommendations on Technical Requirements for Inland Navigation Vessels; Recommendations on Harmonized Europe-wide Technical Requirements for Inland Navigation Vessels, UNECE Resolution No. 61	All Danube is Zone 3 $h_v = 0,6 \text{ m}$	SLG lighter – sections, Zone 2 (ex – DM coastal area, $h_v = 2,5 \text{ m}$)
4	2005 2002	Rules for the Classification and Construction of Inland Navigation Ships, 2002, by Ukrainian Register of Shipping	Recommendations on Harmonized Europe-wide Technical Requirements for Inland Navigation Vessels, UNECE Resolution No.17	All Danube is Zone 3 $h_v = 0,6 \text{ m}$	SLG lighter – sections, Zone 2 (ex – DM coastal area, $h_v = 2,5 \text{ m}$)
3	2001 1991	Rules for the Classification and Construction of Inland Navigation Ships (for Danube basin), 1979 <i>as amended</i> , by USSR Maritime Register	<u>Danube Commission Resolution, 49 session, 1991</u> Danube technical regulations, 1992 as amended; UNECE Resolutions 17, 34, [Directive EU 82/714/EEC]	<u>All Danube is in Zone 3 –</u> $h_v = 0,6 \text{ m}$	SL, SLG-001 lighter – sections, Zone 2 (ex – DM coastal area, $h_v = 2,5 \text{ m}$)
2	1991 1978	Rules for the Classification and Construction of Inland Navigation Ships (for Danube basin), 1978, by USSR Maritime Register	[Directive EU 82/714/EEC], OTNK	Up to Belgrade – $h_v = 1,2 \text{ m}$ (B2) From Belgrade to Kelheim – $h_v = 0,6 \text{ m}$ (B3)	ZAPOROZHYE, pusher (B2); KAPITAN ANTIPOV, dry-cargo- pusher (B2); LENINGRAD, pusher (B2); C-401,1601,1801,1901, lighter – section, (B2)
1	1978 1948	Rules for the Classification and Construction of Inland Navigation Ships of USSR, by RSFSR River Register	Germanischer Lloyd (for inland ships) (for RIGA and KORNEUBURG ships)	Hull elements, stability and strength – $h_v = 2,0 \text{ m}$	KORNEUBURG tug, (B2) RIGA pusher-tug, (B2/B1) SERGEY AVDEENKOV, pusher, (B2)

RIGA type, pusher-tug



Rules and Regulations:

1. Rules for the Classification and Construction of Inland Navigation Ships of USSR, 1961, by RSFSR River Register;
2. Sanitary rules for river and lake ships of USSR, 1985;
3. Sanitary noise standards in river vessels, USSR, 1976;
4. Engineering safety rules for river ships of USSR, 1972.
(were brought into compliance with the requirements)

General Data:

Built: 1965-1968, Obuda Shipyard, Budapest, Hungary

Today`s class: KM+B2 (Zone 2) Ukrainian Register of Shipping

Dimensions: 57,6x8,7x2,85x1,65 m; 23 km/h; 28 ships in operation

Sisterships in operation under flags of European Union:

OXFORD (SK); NOSICE (SK)

ES-TRIN 2025/1 paragraph	Required values	Ship values
Hull elements, stability and strength, Ch.3, p.3.02, 3.03 (Require for h=0,6 m Zone 3)	Provided with calculation for waves h=2.0 m (Zone 1)	
Minimum thickness of the hull parts, Ch.3, p.3.02	6,49 mm	7 mm
Collision bulkhead distance from the bow, Ch.3, p.3.03	Not required	Adequate with Ch.33; 01.01.1985
Aft-peak bulkhead distance from the stern, Ch.3, p.3.02	1,4-4,3 m	
Safety clearance, Ch.4, p.4.01	300 mm	1300 mm
Freeboard, Ch.4, p.4.02	At least 150	1160 mm
Manoeuvrability, Ch. 5	Adequate, tested in built	
Steering system, Ch. 6	Adequate, tested in every dock-class survey	
Wheelhouse, Ch. 7	Adequate for ship outside the Rhine; klb 01.01.1985	
Electrical equipment and installations, Ch.10		
Bow anchors, Ch.13, p.13.01.1	937 kg	950 kg
Stern anchors, Ch.13, p.13.01.4	929 kg	1000 kg
Anchor chains bow/stern, Ch.13, p.13.01.10	60/60 m	100/towing rope 500 m

ES-TRIN 2025/1 paragraph	Required values	Ship values
Mooring cables number and length, Ch.13, p.13.01.3	3, 78/52/26	3x125 m
Mooring cables breaking load, Ch.13, p.13.02	178 kN	271 kN
Other equipment, Ch.13, p.13.03 -13.08	Adequate for ship outside the Rhine; klb 01.01.1985	
Safety at work stations, Ch. 14	Adequate in full, provided with today ukrainian engineering safety reg.	
Accommodation, Ch. 15 Fuel-fired heating, cooking and refrigerating equipment, Ch.16	Adequate in full, provided with today ukrainian sanitary regulations	
Special provisions applicable to craft intended to form part of a pushed or towed convoy or of a side-by-side formation, Ch. 21	Adequate in full	
Engine design, Ch. 8 Main diesel engines: SKL, NVD48.2AU, Germany, 2 x 736 kW Auxiliary diesel engines: SKL, 4NVD24, Germany, 2 x 74 kW	Adequate for ship outside the Rhine; klb 01.01.1985	
Emission of gaseous and particulate pollutants from int combustion engines, Ch. 9	Adequate for ship outside the Rhine, Ch.33, p.33.02	
Installed before 01.01.2020: 1965-1968 with type approval in installation in force on the installation date		



Rules and Regulations:

1. Rules for the Classification and Construction of Inland Navigation Ships of USSR, 1970-1975, by RSFSR River Register;
2. Sanitary rules for river and lake ships of USSR, 1964;
3. Engineering safety rules for river ships of USSR, 1965;
4. Basic Provisions Relating to the Navigation on the Danube (DFND), 1970 (signals).

General Data:

Built: 1974-1975, Belgrade, Serbia

Today`s class: KM+B2 (Zone 2) Ukrainian Register of Shipping

Dimensions: 38,8x11,0x2,6x1,9 m; 17 km/h; 3 ships in operation

Sisterships in operation under flags of European Union:

None

ES-TRIN 2025 paragraph	Required values	Ship values
Hull elements, stability and strength, Ch.3, p.3.02, 3.03 (Require for h=0,6 m Zone 3)	Provided with calculation for waves h=1.2 m (Zone 2)	
Minimum thickness of the hull parts, Ch.3, p.3.02	6,49 mm	8 mm
Collision bulkhead distance from the bow, Ch.3, p.3.03	Not required	Adequate with Ch.33; 01.01.1985
Aft-peak bulkhead distance from the stern, Ch.3, p.3.02	1,5-3,5 m	
Safety clearance, Ch.4, p.4.01	300 mm	850 mm
Freeboard, Ch.4, p.4.02	At least 150	696 mm
Manoeuvrability, Ch. 5	Adequate, tested in built	
Steering system, Ch. 6	Adequate, tested in every dock-class survey	
Wheelhouse, Ch. 7	Adequate for ship outside the Rhine; kIb 01.01.1985	
Electrical equipment and installations, Ch.10		
Bow anchors, Ch.13, p.13.01.1	-	-
Stern anchors, Ch.13, p.13.01.4	1323 kg	1800 kg
Anchor chains bow/stern, Ch.13, p.13.01.10	-/60 m	-/100 m

ES-TRIN 2025 paragraph	Required values	Ship values
Mooring cables number and length, Ch.13, p.13.01.3	3, 59/39/20	3x150 m
Mooring cables breaking load, Ch.13, p.13.02	178 kN	300 kN
Other equipment, Ch.13, p.13.03 -13.08	Adequate for ship outside the Rhine; kIb 01.01.1985	
Safety at work stations, Ch. 14	Adequate in full, provided with today ukrainian engineering safety reg.	
Accommodation, Ch. 15 Fuel-fired heating, cooking and refrigerating equipment, Ch.16	Adequate in full, provided with today ukrainian sanitary regulations	
Special provisions applicable to craft intended to form part of a pushed or towed convoy or of a side-by-side formation, Ch. 21	Adequate in full	
Engine design, Ch. 8 Main diesel engines: Burmeister & Wein, 8T23HU,, 3 x 795 kW Auxiliary diesel engines: (Fabrika Motora Sarajevo) FAMOS 2FP637 A, 2X110 kW, Yugoslavia	Adequate for ship outside the Rhine; kIb 01.01.1985	
Emission of gaseous and particulate pollutants from int combustion engines, Ch. 9 Installed before 01.01.2020: 1974-1975 with type approval in installation in force on the installation date	Adequate for ship outside the Rhine, Ch.33, p.33.02	

ZAPOROZHYE type, pusher



Rules and Regulations:

1. Rules for the Classification and Construction of Inland Navigation Ships of USSR, 1970-1975, by RSFSR River Register;
2. Sanitary rules for river and lake ships of USSR, 1972;
3. Sanitary noise standards in river vessels, USSR, 1976;
4. Engineering safety rules for river ships of USSR, 1965;
5. Basic Provisions Relating to the Navigation on the Danube (DFND), 1970 (signals).

General Data:

Built: 1979-1981, Ganz Danubius, Budapest, Hungary

Today`s class: KM+B2 (Zone 2) Ukrainian Register of Shipping

Dimensions: 32,0x11,0x2,6x1,8 m; 12 km/h; 9 ships in operation

Sisterships in operation under flags of European Union:

None

ES-TRIN 2025 paragraph	Required values	Ship values
Hull elements, stability and strength, Ch.3, p.3.02, 3.03 (Require for h=0,6 m Zone 3)	Provided with calculation for waves h=2.0 m (Zone 1)	
Minimum thickness of the hull parts, Ch.3, p.3.02	6,49 mm	7 mm
Collision bulkhead distance from the bow, Ch.3, p.3.03	Not required	Adequate with Ch.33; 01.01.1985
Aft-peak bulkhead distance from the stern, Ch.3, p.3.02	1,4-3,4 m	
Safety clearance, Ch.4, p.4.01	300 mm	950 mm
Freeboard, Ch.4, p.4.02	At least 150	800 mm
Manoeuvrability, Ch. 5	Adequate, tested in built	
Steering system, Ch. 6	Adequate, tested in every dock-class survey	
Wheelhouse, Ch. 7	Adequate for ship outside the Rhine; klb 01.01.1985	
Electrical equipment and installations, Ch.10		
Bow anchors, Ch.13, p.13.01.1	-	-
Stern anchors, Ch.13, p.13.01.4	1305 kg	2000 kg
Anchor chains bow/stern, Ch.13, p.13.01.10	-/60 m	-/75 m

ES-TRIN 2025 paragraph	Required values	Ship values
Mooring cables number and length, Ch.13, p.13.01.3	3, 52/35/17	3x125 m
Mooring cables breaking load, Ch.13, p.13.02	178 kN	271 kN
Other equipment, Ch.13, p.13.03 -13.08	Adequate for ship outside the Rhine; klb 01.01.1985	
Safety at work stations, Ch. 14	Adequate in full, provided with today ukrainian engineering safety reg.	
Accommodation, Ch. 15 Fuel-fired heating, cooking and refrigerating equipment, Ch.16	Adequate in full, provided with today ukrainian sanitary regulations	
Special provisions applicable to craft intended to form part of a pushed or towed convoy or of a side-by-side formation, Ch. 21	Adequate in full	
Engine design, Ch. 8 Main diesel engines: : Deutz AG, SBV 6M 628 W GV 441 Germany, 2 x 910 kW Auxiliary diesel engines: Deutz DGA 50-9 D234-V6 , Germany, 2x108 kW	Adequate for ship outside the Rhine; klb 01.01.1985	
Emission of gaseous and particulate pollutants from int combustion engines, Ch. 9	Adequate for ship outside the Rhine, Ch.33, p.33.02	
Installed before 01.01.2020: 1979-1981 with type approval in installation in force on the installation date		

KAPITAN ANTYPPOV type, pusher - dry-cargo



Rules and Regulations:

1. Rules for the Classification and Construction of Inland Navigation Ships (for Danube basin), 1979 as amended, by USSR Maritime Register;
2. Sanitary rules for river and lake ships of USSR, 1972;
3. Sanitary noise standards in river vessels, USSR, 1976;
4. Engineering safety rules for river ships of USSR, 1965;
5. Basic Provisions Relating to the Navigation on the Danube (DFND);
6. Austrian Shipping Police Law, 1971; Austrian Water Transport Regulations, 1974; Austrian Regulation on Work on Ships, 1971; Rules of the Austrian Danube Ports Authority.

General Data:

Built: 1980-1982, ÖSWAG, Korneuburg/Linz, Austria

Today`s class: KM+B2 (Zone 2) Ukrainian Register of Shipping

Dimensions: 95,6x11,0x3,2x2,7m; 1900 t; 19 km/h; 15 ships in oper.

Sisterships in operation under flags of European Union:

JOHENSTEIN, GREIFENSTEIN, AGGSTEIN, PARTENSTEIN, DURNSTEIN, KREUZENSTEIN (D)

ES-TRIN 2025 paragraph	Required values	Ship values			
Hull elements, stability and strength, Ch.3, p.3.02, 3.03 (Require for h=0,6 m Zone 3)	Provided with calculation for waves h=1.2 m (Zone 2)				
Minimum thickness of the hull parts, Ch.3, p.3.02	6,49 mm	8 mm			
Collision bulkhead distance from the bow, Ch.3, p.3.03	3,8-5,8 m	???			
Aft-peak bulkhead distance from the stern, Ch.3, p.3.02	1,4-5,8 m	???			
Safety clearance, Ch.4, p.4.01	300 mm	634 mm			
Freeboard, Ch.4, p.4.02	At least 150	484 mm			
Manoeuvrability, Ch. 5	Adequate, tested in built				
Steering system, Ch. 6	Adequate, tested in every dock-class survey				
Wheelhouse, Ch. 7	Adequate for ship outside the Rhine; klb 01.01.1985				
Electrical equipment and installations, Ch.10					
Bow anchors, Ch.13, p.13.01.1	The vessels are used as cargo ships and pushers just in convoys and not used as a single cargo ship. Stern anchor has special increased holding force type.	2150	3225	1400	3300
Stern anchors, Ch.13, p.13.01.4		1075	kg	1900	kg
Anchor chains bow/stern, Ch.13, p.13.01.10	60/60 m	75/75 m			

ES-TRIN 2025 paragraph	Required values	Ship values
Mooring cables number and length, Ch.13, p.13.01.3	3, 115/77/38	3x150 m
Mooring cables breaking load, Ch.13, p.13.02	178 kN	300 kN
Other equipment, Ch.13, p.13.03 -13.08	Adequate for ship outside the Rhine; klb 01.01.1985	
Safety at work stations, Ch. 14	Adequate in full, provided with today ukrainian engineering safety reg.	
Accommodation, Ch. 15 Fuel-fired heating, cooking and refrigerating equipment, Ch.16	Adequate in full, provided with today ukrainian sanitary regulations	
Special provisions applicable to craft intended to form part of a pushed or towed convoy or of a side-by-side formation, Ch. 21	Adequate in full	
Engine design, Ch. 8 Main diesel engines MWM TBD 440-6K, Germany, 2 x 772 kW. Auxiliary diesel engines: MWM TD 232-V8, Germany, 2x 121 kW.	Adequate for ship outside the Rhine; klb 01.01.1985	
Emission of gaseous and particulate pollutants from int combustion engines, Ch. 9 Installed before 01.01.2020: 1980-1982 with type approval in installation in force on the installation date	Adequate for ship outside the Rhine, Ch.33, p.33.02	
m/v KAPITAN ANTYPPOV and FEDIR RIABININ Main diesel engines: : MITSUBISHI S12R-MPTAW, Japan, 2 x 940 kW. Auxiliary diesel engines: Volvo-Penta : VOLVO PENTA D8 –MG, Sweden, 2x 239 kW. Installed in 2024 and 2025 years	Full accordance with the requirements of Regulation (EU) 2016/1628	



KORNEUBURG type, tug

Rules and Regulations:

1. Rules for the Classification and Construction of Inland Navigation Ships of USSR, 1961, by RSFSR River Register;
2. Sanitary rules for river and lake ships of USSR, 1985;
3. Sanitary noise standards in river vessels, USSR, 1976;
4. Engineering safety rules for river ships of USSR, 1972.
(were brought into compliance with the requirements)

General Data:

Built: 1967-1968, ÖSWAG, Korneuburg, Austria

Today`s class: KM+B2 (Zone 2) Ukrainian Register of Shipping

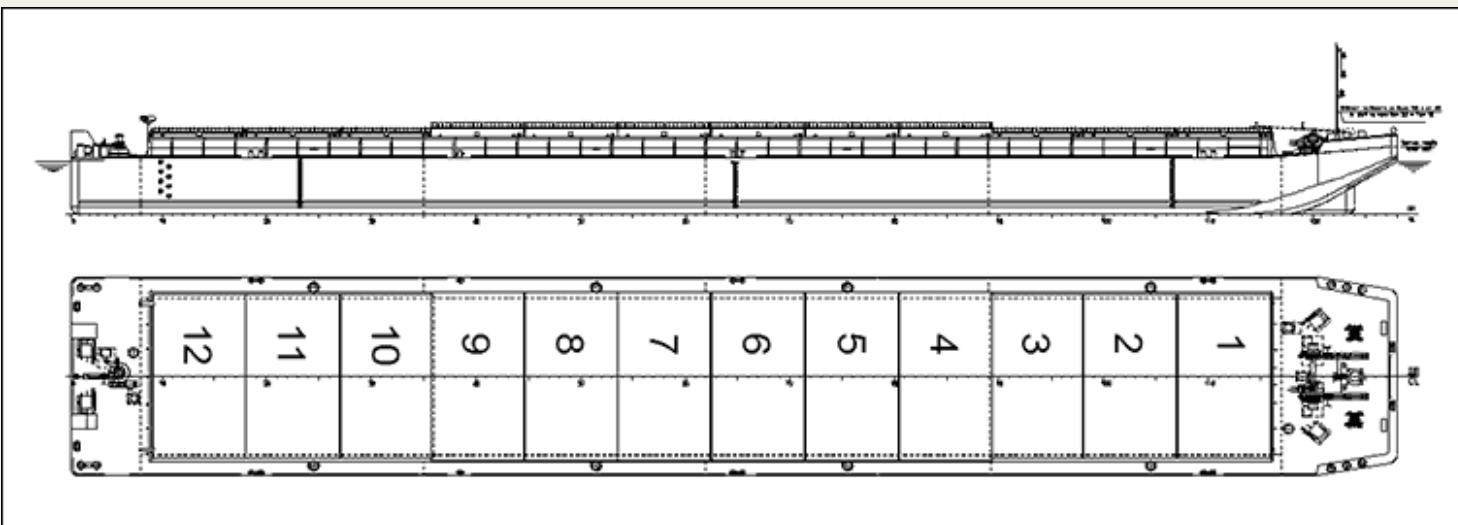
Dimensions: 52,4x7,5x2,7x1,5 m; 23 km/h; 3 ships in operation

Sisterships in operation under flags of European Union:

KREMS (A), SAGE (SL)

ES-TRIN 2025 paragraph	Required values	Ship values
Hull elements, stability and strength, Ch.3, p.3.02, 3.03 (Require for h=0,6 m Zone 3)	Provided with calculation for waves h=1.2 m (Zone 2)	
Minimum thickness of the hull parts, Ch.3, p.3.02	6,49 mm	7 mm
Collision bulkhead distance from the bow, Ch.3, p.3.03	2-4 m	Adequate with Ch.33; 01.01.1985
Aft-peak bulkhead distance from the stern, Ch.3, p.3.02	2-4 m	
Safety clearance, Ch.4, p.4.01	300 mm	1350 mm
Freeboard, Ch.4, p.4.02	At least 150	1200 mm
Manoeuvrability, Ch. 5	Adequate, tested in built	
Steering system, Ch. 6	Adequate, tested in every dock-class survey	
Wheelhouse, Ch. 7	Adequate for ship outside the Rhine; klb 01.01.1985	
Electrical equipment and installations, Ch.10		
Bow anchors, Ch.13, p.13.01.1	752 kg	800 kg
Stern anchors, Ch.13, p.13.01.4	-	-
Anchor chains bow/stern, Ch.13, p.13.01.10	60/- m	100-75/- m

ES-TRIN 2025 paragraph	Required values	Ship values
Mooring cables number and length, Ch.13, p.13.01.3	3, 78/52/26	3x125 m
Mooring cables breaking load, Ch.13, p.13.02	178 kN	271 kN
Other equipment, Ch.13, p.13.03 -13.08	Adequate for ship outside the Rhine; klb 01.01.1985	
Safety at work stations, Ch. 14	Adequate in full, provided with engineering safety reg.	
Accommodation, Ch. 15 Fuel-fired heating, cooking and refrigerating equipment, Ch.16	Adequate in full, provided with int. sanitary regulations	
Special provisions applicable to craft intended to form part of a pushed or towed convoy or of a side-by-side formation, Ch. 21	Adequate in full	
Engine design, Ch. 8 Main diesel engines: MWM, D-484-6U, Germany, 2 x 386 kW. Auxiliary diesel engines: MWM, D-208-6, Germany, 2x33 kW.	Adequate for ship outside the Rhine; klb 01.01.1985	
Emission of gaseous and particulate pollutants from int combustion engines, Ch. 9 Installed before 01.01.2020: 1975-1978 with type approval in installation in force on the installation date	Adequate for ship outside the Rhine, Ch.33, p.33.02	



Rules and Regulations:

1. Rules for the Classification and Construction of Inland Navigation Ships (for Danube basin), 1979 as amended, by USSR Maritime Register; (C-401,1601,1801,1901)
2. Rules for the Classification and Construction of Inland Navigation Vessels, by Ukrainian Register of Shipping, 2002/2022 (SLG-001)
3. Sanitary rules for river and lake ships USSR / Ukraine;
4. Engineering safety rules for river ships of USSR / Ukraine;
5. Basic Provisions Relating to the Navigation on the Danube (DFND);

General Data:

Today`s class: K+B2 (Zone 2) Ukrainian Register of Shipping
 Dimensions: 76,0-76,5 x 11,0-11,4 x 3,20 x 1,6-2,7 m;
Sisterships in operation under flags of European Union:
 All Danube shipping Co`s

Europe II B type, lighter-section

ES-TRIN 2025 paragraph	Required values	Ship values						
		C-401	C-1601	C-1801	C-1901	SLG-001	DM	
Serial type		C-401	C-1601	C-1801	C-1901	SLG-001	DM	
Years of built		1989-1997	1989-1992	1989-1992	1989-1990	2001-2025	1978-1990	
Place of built		Ukraine	Austria	Austr / Germ	Austria	Ukraine	Ukraine	
Hull elements, stability and strength, Ch.3, p.3.02, 3.03 (Require for h=0,6 m Zone 3)		Provided with calculation for waves h =1.2 m (Zone 2)						h = 2,5 m
Minimum thickness of the hull parts, Ch.3, p.3.02	5,75 mm	8,0 mm	8,0 mm	8,0 mm	8,0 mm	8,0 mm	8,0 mm	
Collision bulkhead distance from the bow, Ch.3, p.3.03	3,06-5,06 m	Adequate for ship outside the Rhine, Ch.33, p.33.03 (1)				4,4 m	3,4 m	
Aft-peak bulkhead distance from the stern, Ch.3, p.3.02	1,4-5,06 m	2,9 m	3,5 m	3,5 m	3,5 m	3,4 m	1,85 m	
Safety clearance, Ch.4, p.4.01	300 mm	1520 mm	1450 mm	1450 mm	2100 mm	1900 mm	1700 mm	
Freeboard, Ch.4, p.4.02	150 mm	520 mm	500 mm	500 mm	500 mm	800 mm	600 mm	
Electrical equipment and installations, Ch.10		Provided from pusher. Adequate for ship outside the Rhine; klb 01.01.1985						
Bow anchors, Ch.13, p.13.01.1, 13.01.3-13.01.6	1632 kg (d=2,7 m)	1250 kg (1249, d=2,1 m)	1000 kg (967, d=1,6 m)	1000 kg (1000, d=1,7 m)	1000 kg (993, d=1,8 m)	900	1800 kg	900 kg (890, d=2,05 m)
Stern anchors, Ch.13, p.13.01.4	Not required	-	-	-	-	900		-
Anchor chains bow/stern, Ch.13, p.13.01.10	60/40 m	100/-	100/-	100/-	100/-	100/100	100/-	
Mooring cables number and length, Ch.13, p.13.01.3	3x96/64/32	2x150m; 4x40m	2x150m; 4x40m	2x150m; 4x40m	2x150m; 4x40m	4x63 m	4x63 m (58m)	
Special provisions applicable to craft intended to form part of a pushed or towed convoy or of a side-by-side formation, Ch. 21		Adequate in full						

Project POSS-115 Pusher Tug (6 units: NIBULON-1, NIBULON-3, NIBULON-5, NIBULON-6, NIBULON-10, NIBULON-11)



General Data:

Class: KM+Ice4 III A1 Tug
Ukrainian Register of Shipping

Dimensions:

38,0 x 11,5 x 3,50 x 2,55 m

Machinery:

2 x Azimuth drives;
Mitsubishi S12R C2 MPTK FW
2 x 940 kW

Built: 2011-2019, Mykolaiv, Ukraine

UKRAINIAN COASTAL FLEET WHICH OPERATE ON LOWER DANUBE

Coastal fleet, mixed navigation with h=2,5 m.
Dnipro - Black sea - Danube connection

In according with EU Directives:

1. Directive (EU) 2016/1629, article 2, (c) ii);
2. Directive (EU) 2017/2397, articles 4, 5.

Project 121M Pusher Tug (4 units: «Yuri Makarov», «Nodari Chanturia», «Anatoly Gankevich», «NIBULON-15»)



General Data:

Class: KM+Ice B-R4-RS3,0AUT3Tug
Ukrainian Register of Shipping

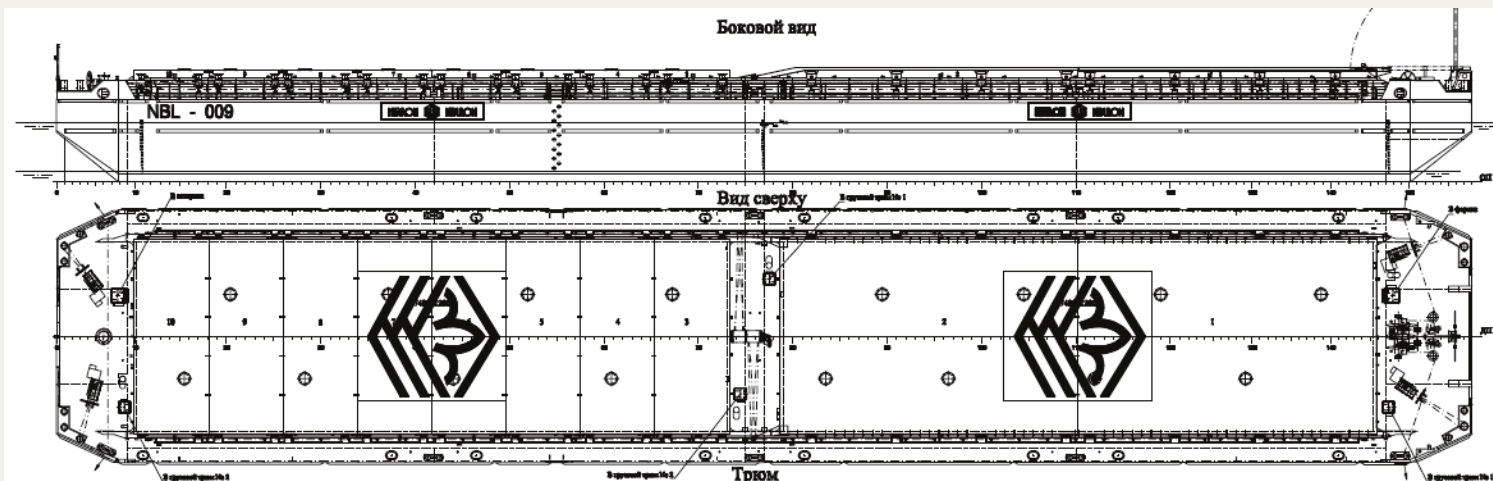
Dimensions:

29,9 x 11,2 x 2,80 x 1,64 m

Machinery:

2 x Azimuth drives;
Volvo Penta D16 MH
2 x 442 kW

Built: 2015-2020, Mykolaiv, Ukraine



Project 81173H Pusher Tug (1 unit: «Pribuzhanovsky»)



General Data:

Class: KM+O 2.0 (Ice 20) A
Ukrainian Register of Shipping

Dimensions:

34,4 x 10,4 x 2,70 x 1,80 m

Machinery:

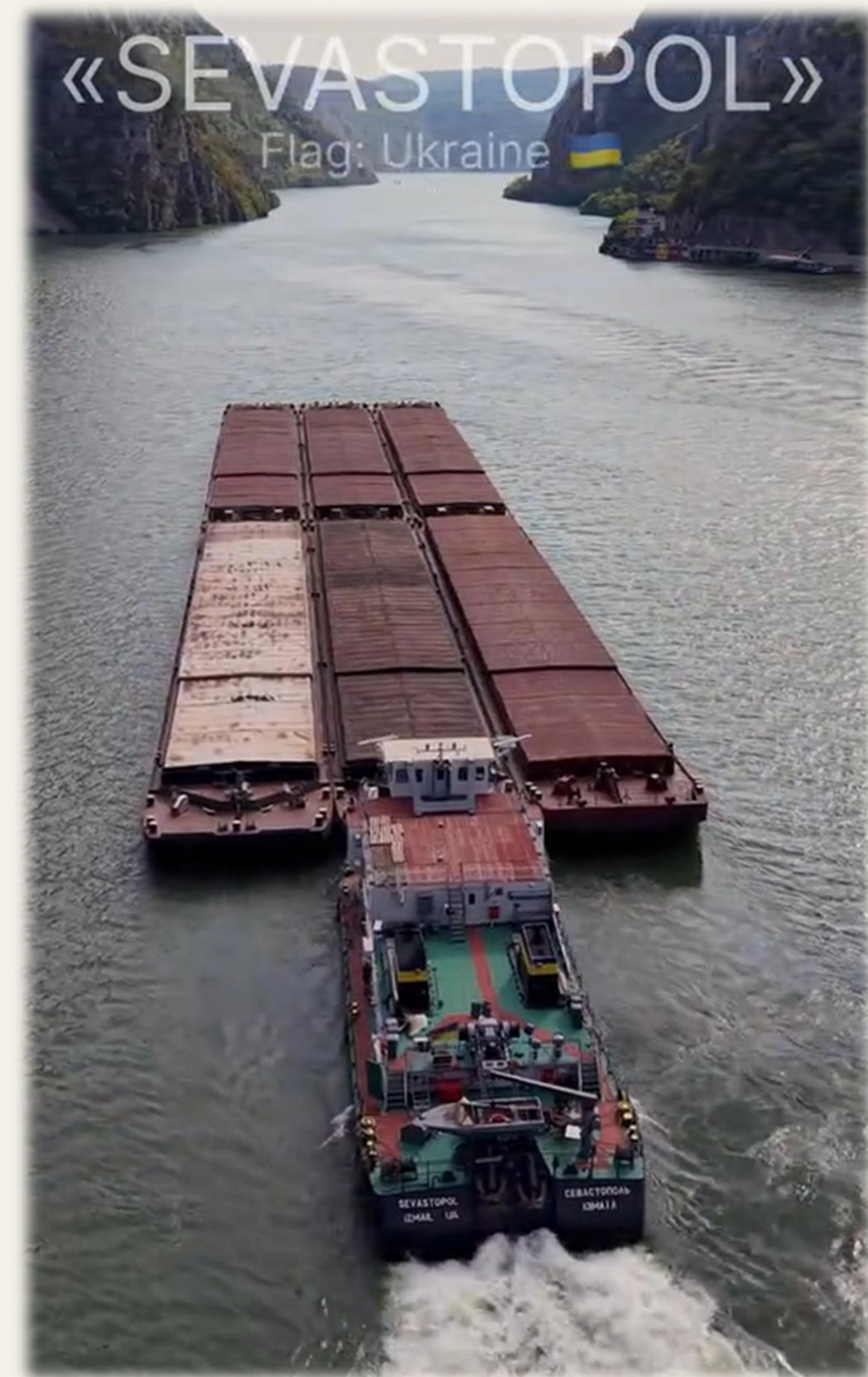
2 x fixed pitch propellers;
WHM6160C408-1
2 x 300 kW

Built: 1994, Ukraine

Project	Class of Ukrainian Register of Shipping	Dwt, t	Dimensions, LxBxDxd, m
B5000M - type 2022, Mykolaiv, Ukraine 2 ships	K+Ice B-R4-RS 2,5	5000	101,0 x 17,0 x 5,75 x 3,75
B2000 - type 2016-2017, Mykolaiv, Ukraine 6 ships	KM+Ice1 R3-IN	2039	71,7 x 17,0 x 3,30 x 2,25
NBL-90 - type 2009-2010, Mykolaiv, Ukraine 22 ships	KM+SP 2,5 Ice	4377	90,0 x 16,0 x 5,20 x 3,75
NBL-91 – type 2015-2021, Mykolaiv, Ukraine 6 ships	KM+Ice B1	3750	90,0 x 16,0 x 4,20 x 2,70

FINDINGS AND CONCLUSIONS

1	The Ukrainian Danube fleet is in full compliance with the ES-TRIN 2025/1 rules , taking into account the transitional provisions of Chapter 33 for vessels operating exclusively on waterways outside the Rhine.
2	The Ukrainian Danube fleet maintains a level of safety at least equivalent to other Danube vessels from member states of the Danube Commission and the European Union.
3	The entire Ukrainian Danube river fleet was originally designed for Zones 1 and 2, with wave heights of 2.0 m and 1.2 m, respectively. Consequently, the requirements of the structural and operational safety of these vessels throughout their entire lifecycle significantly exceed the requirements for vessels operating on Zone 3 inland waterways (h=0.6 m).
4	The same applies to the fleets of all other Danube states — members of the DC, regardless of whether they are EU members or not, whose vessels were built before 1991 for operation along the entire length of the Danube.
5	Consequently, the Ukrainian Danube fleet is simply undergoing a generational change in technical regulations , transitioning from one model to another without any loss or reduction in safety
6	Various editions of the Danube technical regulations just were taken into account during vessel design as additional requirements to more strong and hard Rules for the design and construction of inland navigation vessels of the USSR and Ukraine. Nevertheless, pursuant to Danube Commission “Recommendation on technical requirements for inland vessels”, ship certificates are issued in accordance with the established procedure for Danube .
7	Ukrainian vessels operating on the Danube and having Ship’s Certificate issued by Ukraine in accordance with the DC Recommendations and a Register class confirmed by a Classification certificate, can be safely operated until the date of expiration of the Ship’s Certificate.



Thank you!



Ministry for Development
of Communities
and Territories of Ukraine