

STEEL STEAMER or MOTORSHIP.

Received at London Office

13 OCT 1927

State if Report has been sent on the Freeboard of the Vessel noState if Report is sent on the Machinery of the Vessel yes

Date of completion of report

8th October 1927

Port of

LENINGRAD

No.

16

Survey held at

LENINGRAD

Date First Survey

18th January 1926

Last Survey

7th October 19271927

On the

(State if Machinery fitted Aft and if Single, Twin or Triple Screw)

Single Screw or "TOVARISTCH KRASSIN"

State Type

(Full Scantling Complete Superstructure with or without Tonnage Openings)

Full Scantling

State Type of Erections

(Poop Bridge & F'de, & winch platforms aft & forward)

TONNAGE under Tonnage Deck

1924.98CLASS 100A1

State if with freeboard

no

Built at

LeningradLaunched 22nd Nov. 1925Yard No. 168

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern

L 276.0

Breadth (greatest moulded)

B 43.0

Depth at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 22.64

Total

1924.98

Gross Tonnage

2414.28

Register Tonnage

1348.611st Longitudinal Number (L x D) = 62512nd Numeral L x (B + D) = 18120Builders Baltic Shipbuilding & Engineering WorksOwners Soviet Merchant Fleet (Sovtorgflot)

Managers

(Where necessary to be entered in Reg. Book.)

Residence

Port of Registry

Leningrad

If surveyed while building, afloat, or in dry dock

Afloat & in Dry Dock

REGISTERED DIMENSIONS.

FEET.

Length

276.75

Breadth

42.98

Depth

20.54

Framing Depth "d," at middle of length. See Sec. 3 (1d)

19.7

Proportions—Depth to Length—Uppermost continuous deck to top of keel

12.2

Do. Long Bridge to top of keel

8.75

Draught Moulded

FRAMES, DOUBLE BOTTOM AND BEAMS.

	IN SHIP. mm.	Any Departure from Approved Plans to be Noted.		IN SHIP. mm.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	<u>620</u>		Bracket Floors, Frame	<u>—</u>	
" " from $\frac{1}{2}$ length to Collision bulkhead	<u>620</u>		" " Reversed Frame	<u>—</u>	
" " in peaks	<u>600</u>		" " Vertical Struts	<u>—</u>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<u>900 x 11</u>	
Frame Amidships, <u>220 x 80 x 9 x 13 1/2</u>		<u>appd. C N 20</u>	" " top Angles	<u>75 x 75 x 9</u>	
" " Extends up to <u>Upper Deck</u>			" " bottom Angles	<u>90 x 90 x 12</u>	
Reversed Frame Amidships, Angle <u>—</u>			Side Girders, No. each side and thickness	<u>one, 9</u>	
" " Extends up to <u>—</u>			Margin Plate depth (excl. of flange) and thickness	<u>715, 10</u>	
Depth of Framing Girder <u>220</u>			" " Vertical Angle to Tank side	<u>75 x 75 x 9</u>	
Frames in Uppermost Continuous 'tween Decks, Angle, [or] <u>—</u>			" " Bracket abaft $\frac{1}{2}$ len. from stem	<u>75 x 75 x 9</u>	
" " Second 'tween Decks, Angle, [or] <u>—</u>			" " Vertical Angle to Tank side	<u>75 x 75 x 9</u>	
" " Third " " " " <u>—</u>			" " Bracket forward $\frac{1}{2}$ len. from stem	<u>75 x 75 x 9</u>	
Framing in Peaks, Angle or [or] <u>100 x 75 x 9</u>		<u>100 x 75 x 11 intermediate frames in fore peak for ice</u>	" " Gussets, spacing and scantling abaft $\frac{1}{2}$ len. from stem	<u>660 x 420 x 10 alternate frames</u>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships <u>19 mm. at 7 dia.</u>			" " Gussets, spacing and scantling forward $\frac{1}{2}$ len. from stem	<u>600 x 460 x 10 every frame</u>	
State if Frame Joggled <u>no</u>			Tank Side Brackets, height above base line at toe of frame and thickness	<u>1380, 10</u>	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars <u>Reverse angles fitted to frames & side stringers fitted as approved. Coll. Bhd. to fr. 20. Also intermediate frames fitted for ice strengthening, L 160 x 80 x 14, to fr. 25.</u>			INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars <u>Extra intercostal fitted, bottom frames doubled & increased riveting as approved.</u>			Breadth and thickness of Middle Line Strake	<u>1200, 11</u>	
SINGLE BOTTOM.			Thickness of remainder in Holds	<u>11 & 9</u>	
Floors, Depth and thickness at mid-tween Holds			Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	<u>yes</u>	
Height of Brackets at side above base line at toe of frame			BEAMS.		
Middle Line Keelson, on Floors, Angles, [or]			Uppermost Continuous Deck, amidships in Wells, [or]	<u>160 x 65 x 7 1/2 x 11</u>	
" " Through Plate or Intercostal Plate			" " in way of Bridge, [or]	<u>do do</u>	
" " Foundation Plate on Floors			Spacing	<u>620</u>	
" " Flat Plate Keel Angles			Second Deck, amidships, Angle, [or]	<u>7</u>	
Side Keelsons, No. each side			Spacing		
" " thickness of Intercostal Plate			Third Deck, amidships, Angle, [or]	<u>7</u>	
" " Angles			Spacing		
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, [or]	<u>7</u>	
Solid Floors, thickness and spacing	<u>9, 620</u>		Spacing		
" " Are Frame and Reversed Frame joggled?	<u>no</u>		Poop Deck, [or]	<u>180 x 70 x 8 x 12</u>	
Bracket Floors, breadth and thickness at mid-tween	<u>—</u>		Spacing	<u>alternate frames</u>	
" " breadth and thickness at margin plate	<u>—</u>		Bridge Deck, [or]	<u>180 x 70 x 8 x 12</u>	
			Spacing	<u>alternate frames</u>	
			Forecastle Deck, [or]	<u>180 x 70 x 8 x 12</u>	
			Spacing	<u>alternate frames with informed IR</u>	

PILLARS AND DECKS.			
PILLARS, No. of Rows	IN SHIP.	Any Departure from Approved Plans to be noted.	IN SHIP.
" in 'tween Decks, Size and Spacing	Large brackets in Bulkheads at centre line & hatch sides, and centre line pillars at Hatch ends as approved		
" " " " "			
" in Holds			
" " " " "			
Centre Line Bulkhead.			
Stiffeners and Spacing			
Plating, thickness of			
Stringers and Decks.			
Uppermost Continuous Deck.			
Stringer Plate, breadth and thickness in Wells	1500	15	
" " " " in way of Bridge	1500	15	
" " at Bridge ends	125	25	
" Angle in Wells	125 x 125	15	app. 130 x 130 x 15
Thickness of Plating abreast Deck openings in way of Wells	13	10	
Thickness of Plating abreast Deck openings in way of Bridge	10		
Thickness of Plating within line of openings	10		
If Sheathed, material and thickness			
Second Deck.			
Stringer Plate, breadth and thickness in Wells			

SHELL PLATING.			
SCANTLINGS.			
STRAKES.	AS IN VESSEL.		
	AMIDSHIPS.		ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.
	Breadth.	Thickness.	
FLAT PLATE KEEL	1150	15	14
" DBLG. (if any)			
BOTTOM PLATING, No. of Strakes	1400	12	12
BILGE PLATING, No. of Strakes	1820	12	12
SIDE PLATING, No. of Strakes	1450	12	12
UPPER DECK, Sheer-strake in Wells	1300	15	15
UPPER DECK, Sheer-strake in Bridge		15 (23 mm at Bridge ends)	
STRAKE BELOW SHEER-strake in Wells	1400	14	14
STRAKE BELOW SHEER-strake in Bridge		14	
POOP SIDE PLATING			9
BRIDGE SIDE PLATING			9
FORECASTLE SIDE PLATING			9

WATERTIGHT BULKHEADS.			
Total No. of W.T. BULKHEADS in Vessel			
Extending to Upper Deck (Sec. 3 c)			
" Deck next below			
As per Rule			
FORGINGS AND CASTINGS.			
KEEL, Bar	CASTING OR FORGING.	SCANTLINGS.	MAKER'S NAME.
STEM	casting	220 x 145	Bolshevik Steel Works.
STERN FRAME	casting	220 x 145	Bolshevik Steel Works.
RUDDER	casting	220 x 145	Bolshevik Steel Works.
RUDDER mainpiece at head	forging	240	Baltic Shipbldg & Engineering Works.
" " heel	forging	180	Baltic Shipbldg & Engineering Works.
" " how constructed	forged & built		
" " double or single plate coupling, vertical or horizontal	single		

STEEL.			
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)			
Plates - The Mariupol State Steel Works.			
Sections - Jomsky State Steel Works, Kramney Potilovsk Steel Works, State Steel Works "Petrovsky" Ekaterinoslav, & Dneprovsky State Steel Works.			
Has the Steel been tested as required by the Rules?			

EQUIPMENT No. 19250			
LETTER S			
ANCHORS.			
Number of Certificate.	Weight of Stock.	Test per Certificate.	Where and when tested and by whom.
19	2200	38700	26.8.27. H. K.
18	2190	38600	26.8.27. H. K.
17	2140	37800	26.8.27. H. K.
20	580	13500	26.8.27. H. K.
21	310	8420	26.8.27. H. K.

CHAIN CABLES.			
Number of Certificate.	Length and size supplied.	Test per Certificate.	Where and when tested and by whom.
5	110 46	69700	26.8.27. H. K.
6	106 46	41700	26.8.27. H. K.

HAWERS AND WARPS.			
Number of Certificate.	Length and size supplied.	Test per Certificate.	Where and when tested and by whom.
5	110 46	69700	26.8.27. H. K.
6	106 46	41700	26.8.27. H. K.

GENERAL DECLARATION			
Steering Gear, Steam Combined Steam & Hand with Telemotor Control			
2 Lifeboats			
Boats			
Ceiling in Holds, thickness and material			
Cargo Hatchways, (Upper Deck)			
Size of No. 1 Hatchway (Forward)			
Number of Shifting Beams			

The survey of this vessel was commenced after launching.

A general examination was made of the vessel and the scantlings and arrangements were found generally to conform with plans which had been previously approved. The amendments on the approved plans and the requirements in the Secretary's letters have since been carried out or equivalent strengthening fitted.

The steel used in the construction of the vessel was manufactured at Franks which have since been approved by the Committee and tested by the Surveyors of the Russian Register of Shipping to the Society's requirements (see Mr. Helyar's report on vessels under construction in the U.S.S.R. dated 4th March 1926, an extract of which was forwarded with Report N° 3 of S.S. "Tovarnich Stalin").

The workmanship was found generally satisfactory.

The weather decks, watertight bulkheads, tunnel, watertight door in Engine Room bulkhead, have been hose tested with satisfactory results. (See over).

The amount of Entry Fee	£		
Special Survey Fee	£		
Travelling Expenses, if any	£		
Fees applied for			
Received by me			
I am of opinion the Vessel should be Classed			
See Secretary's Letter 22/7/27 to Builders			
State whether the Vessel has been built under Special Survey			
Certificate to be sent to			
Date of issue			

Committee's Minute			
Character assigned			
note strengthened for navigation			
White Kingrad			
thine 10.27			
subject			
My			

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

Sister Ships:—S.S. "Tovaristch Stalin" Report N° 3, S.S. "Gregory Zinovieff" Report N° 7, and S.S. "Michael Tomstey" Report N° 12.

Windlass, Steam and Hand Steering Gear, hand pump forward and watertight door in Engine Room bulkhead, examined and tried under working conditions and found satisfactory.

The vessel is fitted with Wireless, Submarine Signalling and Electric Lighting.

The vessel was examined in Dry Dock at Cronstadt on the 25th July 1927 and Subsequent dates bottom cleared examined and found satisfactory and re-coated, whilst in dry dock the forward and after Peak Tanks and all double bottom Tanks were tested to rule requirements with satisfactory results.

At present the vessel is supplied with only 110 metres of tested cable, the remainder being untested, a complete outfit of chain cable to rule length dia. and Test have been ordered from Germany.

A plan of Midship Section as built, casting report for quadrant and forging report for tiller are forwarded with this report.

Particulars of Drop Test of Cast Steel Anchors, viz.:—
Weight, Surveyor's Initials,
Number of Certificate, Date
of Test.

1st Bower	1430 Kilos.	A.B.L.	12.	23.6.27
2nd "	1337 "	A.B.L.	13.	8.6.27
3rd "	1396 "	A.B.L.	17.	1.7.27

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 13.7 ft., R.Q.D. - ft., Bridge 68.4 ft., Forecastle 24.3 ft.

(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated.

Aft Winch Platform 16.3 feet Forward Winch Platform 16.3 feet

No. and Material of Decks (this information is to be given as it should appear in the Register Book) One deck (steel) & Erections as above

Official No. ; Signal Letters

under Engines & Boilers, yes
Is bottom of Vessel coated with cement A if not give

particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.		Water Capacity.	Where Fitted.	*Length.		Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft,	79.4	✓ 169	✓	Fore peak tank,	-	-	43 ✓
Double bottom, under Engines and Boilers,	42.6	✓ 126	✓	After peak tank,	-	-	21 ✓
Double bottom, if under Engines only,				Deep tank, aft,			
Double bottom, if under Boilers only,				Deep tank, forward,			
Double bottom, forward,	105.8	✓ 230	✓	Other tanks, if fitted,			
	Total capacity of double bottom		✓ 525	(If necessary, furnish further information by sketch.)			
	no wells		* The wells are not to be included in the lengths of the tanks.				

Order for Special Survey No.

Date

Dates of Surveys held while building

1926 Jan 18, June 29, Aug 4, 10, Sept 3, 4, 8, 11, 27, 29, Oct 13, Nov 16, 18, 20, 24, Dec 13,
1927 Mar 16, May 16, June 3, 5, 27, July 25, 29, Aug 3, 8, 31, Sept 5, 9, 12, 19, 21, Oct 7th

Total No. of Visits 32