

State if Report is sent on the Machinery of the Vessel.....yes

Port of Leningrad

Survey held at LENINGRAD

Date First Survey 22<sup>nd</sup> February 1926

No. 23

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

Single Screw Sr. "PRAYDA"

### *Last Survey*

30<sup>th</sup> July

1928

State Type (Full Scaffolding, Complete Superstructure)  
with or without Tonnage Openings

Full Scantling.

### State Type of Erections

{ Poop, Bridge & F'dle  
& winch platforms  
{ aft & forward

**TONNAGE under } 2032.00**  
**Tonnage Deck... }**

CLASS + 100 A.1.

State if with freeboard }  
as condition of Class } ..... no.

Built at Leningrad.

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

**Length** from fore part of stem to after part of stern }  
post on summer L.W.L. See Sec. 3 (1a) } L 283.7

Launched 22<sup>nd</sup> November 1926 Yard No. 171.

**Total** 2032.00

Breadth (greatest moulded) ..... B 13.0

Builders Baltic Shipbuilding & Engineering Works.

**Gross Tonnage**.....2512.89

<b>Depth,</b> at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) .....	<b>B</b>	45.0
	<b>D</b>	22.6

Owners Soviet Mercantile Fleet (Sovtorgflot)

Register Tonnage 1387.30

1st Longitudinal Number (L x D).....= 6410

## Managers

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

**REGISTERED DIMENSIONS.**  
FEET.

**Framing Depth "d," at middle of length.** See } 19.7  
Sec. 3 (1d) .....

Residence

Length ..... 284.32

**Proportions**—Depth to Length—Uppermost continuous deck to top of head .....

Port of Registry.....Leningrad

**Breadth** 43.18

Do. Long Bridge to top ) 9.0

*If surveyed while building, afloat, or in dry dock*

Depth 20.57

**Draught Moulded** ..... of keel } 18' 3 5/8"

## Building Afloat

FRAMES, DOUBLE BOTTOM AND BEAMS.

	mm.	IN SHIP.	Any Departure from Approved Plans to be Noted.		mm.	IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>FRAMES, Spacing amidships .....</b>	620	/		<b>Bracket Floors, Frame .....</b>	-	/	
" " from ½ length to Collision bulkhead.....}	Bottom 620 Sides 413	/		" " Reversed Frame .....	-	/	
" " in peaks.....	600	/		" " Vertical Struts .....	-	/	
<b>SIDE FRAMING.</b>				<b>Centre Girder, depth and thickness amidships</b>	915 x 12	/	
<b>Frame Amidships, Angle, [ or ] .....</b>	220x80x9x13.5	/		" " top Angles .....	75x75x11	/	
" " Extends up to .....	Upper Deck.	/		" " bottom Angles .....	90x90x12	/	
<b>Reversed Frame Amidships, Angle .....</b>	-	/		<b>Side Girders, No. each side and thickness .....</b>	one, 9	/	
" " Extends up to ...	-	/		<b>Margin Plate depth (excl. of flange) and thickness .....</b>	870x10	/	
<b>Depth of Framing Girder.....</b>	220	/		" " Vertical Angle to Tank side Bracket abaft ¼ len. from stem .....	75x75x9	/	
<b>Frames in Uppermost Continuous 'tween Decks, Angle, [ or ] .....</b>	-	/		" " Vertical Angle to Tank side Bracket forward ¼ len. from stem .....	75x75x9	/	
" " Second 'tween Decks, Angle, [ or ] .....	-	/		" " Gussets, spacing and scantling abaft ¼ len. from stem.....	280x680x10	/	Alternate frames
" " Third " " " " " "	-	/		" " Gussets, spacing and scantling forward ¼ len. from stem.....	280x680x10	/	Every frame forward of frame N° 29
<b>Framing in Peaks, Angle or [ or ] .....</b>	100x75x9 75x75x9 100x75x11 intermediate frames in fore Peak for Ice	/		<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	1380x10	/	
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships .....</b>	22x19 mm at 7 diameters	/		<b>INNER BOTTOM PLATING.</b>			
<b>State if Frame Joggled .....</b>	no	/		Breadth and thickness of Middle Line Strake ...	1050x11	/	approved 1200x11 but adjacent strake fitted middle line thickness.
<b>PANTING ARRANGEMENTS (Sec. 7), state system and particulars)</b>		/		Thickness of remainder in Holds .....	11x9	/	
<b>STRENGTHENING OF BOTTOM FORWARD. State Particulars .....</b>	Frames doubled, extra ½ height intercostal fitted & increased riveting as approved.	/		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? .....	yes	/	
<b>SINGLE BOTTOM.</b>				<b>BEAMS.</b>			
<b>Floors, Depth and thickness at mid-line in Holds .....</b>		/		<b>Uppermost Continuous Deck, amidships in Wells, Angle, [ or ] .....</b>	160x65x7½x11	/	
Height of Brackets at side above base line at toe of frame .....		/		" " in way of Bridge, Angle, [ or ] .....	ditto	/	
<b>Middle Line Keelson, on Floors, Angles, [ or ] .....</b>		/		Spacing .....	every frame	/	
" " Through Plate or Intercostal Plate... }		/		<b>Upper Deck, 10-28 frames.</b>		/	
" " Foundation Plate on Floors .....		/		<b>Second Deck, amidships, Angle, [ or ] .....</b>	180x70x8x12	/	
" " Flat Plate Keel Angles .....		/		Spacing.....	826	/	
<b>Side Keelsons, No. each side .....</b>		/		<b>Third Deck, amidships, Angle, [ or ] .....</b>	-	/	
" " thickness of Intercostal Plate...		/		Spacing.....	-	/	
" " Angles .....		/		<b>Fourth Deck, amidships, Angle, [ or ] .....</b>	-	/	
<b>DOUBLE BOTTOM.</b>				Spacing.....	-	/	
<b>Solid Floors, thickness and spacing .....</b>	9 at 620	/		<b>Poop Deck, Angle, [ or ] .....</b>	180x70x8x12	/	
" " Are Frame and Reversed Frame joggled? .....	no	/		Spacing.....	alternate frames	/	
<b>Bracket Floors, breadth and thickness at middle line.....</b>	-	/		<b>Bridge Deck, Angle, [ or ] .....</b>	180x70x8x12	/	
" " breadth and thickness at margin plate.....	-	/		Spacing.....	alternate frames	/	
				<b>Forecastle Deck, Angle, [ or ] .....</b>	180x70x8x12	/	
				Spacing .....	alternate frames	/	



## PILLARS AND DECKS.

PILLARS. No. of Rows.....	SCANTLINGS IN SHIP.		Any Departure from Approved Plans to be Noted.	SCANTLINGS IN SHIP.	Any Departure from Approved Plans to be Noted.
	Length.	Thickness.		Length.	Thickness.
Stringer Plate, breadth and thickness in way of Bridge .....	1400	15		1400	15
Thickness of Plating abreast Deck openings in way of Wells .....	1250	12		1250	12
Thickness of Plating abreast Deck openings in way of Bridge .....	1250	12		1250	12
Thickness of Plating within line of openings.....	1250	12		1250	12
If Sheathed, material and thickness .....	1250	12		1250	12
Third Deck.					
Stringer Plate, breadth and thickness.....	1400	15		1400	15
If Plated, state thickness .....	1400	15		1400	15
Fourth Deck.					
Stringer Plate, breadth and thickness.....	1400	15		1400	15
If Plated, state thickness .....	1400	15		1400	15
Poop Deck.					
Stringer Plate, breadth and thickness.....	1400	15		1400	15
Plating, sheathing, material and thickness .....	1400	15		1400	15
Bridge Deck.					
Stringer Plate, breadth and thickness.....	1400	15		1400	15
Plating, sheathing, material and thickness .....	1400	15		1400	15
Forecastle Deck.					
Stringer Plate, breadth and thickness.....	1400	15		1400	15
Plating, sheathing, material and thickness .....	1400	15		1400	15

## SHELL PLATING.

STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	RIVETING.			
	AMIDSHIPS.	FORWARD.	AFT.	THICKNESS.		EDGES.	NO. OF ROWS OF RIVETS.	BUTTS.	STRAPPED OR LAPPED.
FLAT PLATE KEEL .....	1200	15	14	14		Double	22	77 1/2	Lapped.
" DELG. (if any) .....	1400	12	12	12		Double	19	77 1/2	Lapped.
BOTTOM PLATING, No. of Strakes .....	1400	12	12	12		Double	19	77 1/2	Lapped.
BILGE PLATING, No. of Strakes .....	1585	12	18	10	at stern post 12 Boss plating 14	Double	19	77 1/2	Lapped.
SIDE PLATING, No. of Strakes .....	1400	12	18	10		Double	19	77 1/2	Lapped.
UPPER DECK, Sheer-strake in Wells.....	1300	16	12	12		Double	22	77 1/2	Lapped.
UPPER DECK, Sheer-strake in Bridge .....	12	23 at Bridge ends				Double	19	77 1/2	Lapped.
STRAKE BELOW Sheer-strake in Wells.....	1400	14	18	11		Double	22	77 1/2	Lapped.
STRAKE BELOW Sheer-strake in Bridge .....	12					Double	19	77 1/2	Lapped.
POOP SIDE PLATING .....	11			8 1/2		Single	16	66 2/3	Lapped.
Erections in Way of Masts .....	11			7		Single	19	77 1/2	Lapped.
BRIDGE SIDE PLATING .....	11			7		Single	19	77 1/2	Lapped.
FORECASTLE SIDE PLATING .....	9					Single	16	66 2/3	Lapped.

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.
Extending to Upper Deck (Sec. 3 c) .....	A
" Deck next below .....	-
As per Rule .....	A

## FORGINGS AND CASTINGS.

CASTING OR FORGING.	SCANTLINGS.	MAKER'S NAME.	ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.
KEEL, Bar .....	Flat Plate	Keel.	
STEM .....	205x60	Bolshevik Steel Works.	
STERN FRAME .....	220x150	Bolshevik Steel Works.	
RUDDER—A x D (10.5 x 11.9) .....	12.495 (met)		
Speed of Vessel .....	2.2 knots		
RUDDER mainpiece at head .....	260	Baltic	
" " heel .....	200	S.E.	
" " how constructed .....	forged & built	Works.	
" " double or single plate .....	Single		
" " coupling, vertical or horizontal .....	Vertical		

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) .....
	Plates—Marianopol Steel Works, Ojarsky Steel Works.
	Sections—Ojarsky Steel Works, "Petrovsky" Steel Works, Krasnoy Pochinovsk Steel Works & Dneprovsky Steel Works.
	Has the Steel been tested as required by the Rules? See Remarks.

## EQUIPMENT No. 20100

## LETTER S

## ANCHORS.

Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.	WEIGHT OF STOCK.	TEST, PER CERTIFICATE.	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
35	1st Bower	2205	Stockless	38820	5590	Hall's stockless	Krasnyy Sormovo Works	Kolpino 12-11-27 W.E. Lewis
36	2nd "	2175	"	38350	"	"	"	Kolpino 15-11-27 W.E. Lewis
40	3rd "	2180	"	38300	"	"	"	Kolpino 22-11-27 W.E. Lewis
48	Stream	6560	13900	8150	510	Admiralty Type	Krasnyy Sormovo Works	Kolpino 6-12-27 W.E. Lewis
58	Kedge	295	75	8150	510	"	Krasnyy Sormovo Works	Kolpino 30-12-27 W.E. Lewis

## CHAIN CABLES.

HAWKERS' AND WARPS.																		
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and size supplied.		Breaking Test of Steel Wire.	Length and size per Table 53.		
	Length.	Diam.	Stain.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Cir.		Length.	Cir.	Feet.
	Fathoms.	Inch.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Inch.								
312	25½	1½	59½	82¾	434-3-5		397¾	240	1½	stud. link	Carl Schlieper	Grüne 21/10/27 J. August	TOWLINE	256 Met.	12	marilla	165 M.	12
Iron Stream (Hawker's Steel Wire)	165	5	72-2					135 Met.	4½				HAWKERS' & WARPS	256 M.	3	23-2	165 M.	2½
														256 M.	3	23-2	165 M.	2½
														183 M.	2½	16100 Kg.	165 M.	2½
														183 M.	2½	16100 Kg.	165 M.	2½

Steering Gear, Stream Combined Electric & Hand Steering Gear made by Steering Gear, Hand Baltic Shipbuilding & Engineering Works.

Boats 2 at 25'-0" x 8'-1 1/2" x 3'-2 1/2" Steering Chains, Size and Test Windlass Electric, by J. H. Wilson & Co. Ltd. Birkenhead.

Ceiling in Holds, thickness and material Over bilges only 65 mm. Cargo Battens, thickness, material and spacing 150 x 62 mm pine at 230 mm between rows.

Cargo Hatchways, (Upper Deck) Steel plates & Angles as approved Thickness of Hatches 85 mm.

Size of No. 1 Hatchway (Forward) 24'-6" x 21'-5" No. 2 30'-6" x 21'-5" No. 3 30'-6" x 21'-5" No. 4 24'-6" x 21'-5" No. 5 - No. 6 -

Number of Shifting Beams and Fore and Aft No. 1-3, No. 2-4, No. 3-4, No. 4-3.

Builder's Signature P. Hoinis 15/11/1928.

GENERAL DECLARATION When the Survey on this vessel was commenced the inner bottom was completely framed, three quarters of the bottom plating & tank top plating fitted & partly riveted, and the midship side framing & plating partly erected.

A general examination was made of the vessel and the scantlings and arrangements were found generally to conform with plans which were subsequently approved. The amendments on the plans together with the requirements of the Secretary's letters have been carried out or equivalent strengthening fitted. The rivet holes in the bulkhead plating of the fore and after peak tanks have not been countersunk, this work was completed before the survey was commenced, but in view of the excellent results of water tests it is submitted the riveting might be accepted.

The steel used in the construction of the vessel was manufactured at works which have since been approved by the Committee. The major portion of the steel was linked by the Surveyors to the Russian Register of Shipping, to the Society's requirements and check tests were made on this material from shearings of plates and angles with satisfactory results (See Mr. Helyer's report on vessels under construction).

The amount of Entry Fee .....	£	:	:	Fees applied for,
Special Survey Fee ....	£	:	:	19.
Travelling Expenses, if any £	:	:	:	Received by me,
				19.

I am of opinion the Vessel should be Classed 100 A.1 Strengthened for Navigation in Ice.

State whether the Vessel has been built under Special Survey Partly see above Signature Alex Stevanov Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Hull Office Date of issue 19/8/28

Committee's Minute FRI 10 AUG 1928

Character assigned + 100 A.1

Lloyd's A & C + Lme 7-28 28 Cl

Strengthened for Navigation in Ice



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.)

construction in U.S.S.R. dated 4<sup>th</sup> March 1926). The remainder of the steel which was delivered later being used by the Soviet Surveyors as required.

The materials & workmanship were found generally satisfactory.

The double bottom tanks and the fore & after peak tanks have been water tested under rule pressure and found satisfactory.

The weather decks, watertight bulkheads, tunnel and watertight door have been satisfactorily hose tested.

The watertight door, hand pump, windlass, electric & hand steering gear have been examined and tried under working conditions and found satisfactory.

The vessel is fitted with Wireless (including Direction Finder) Electric Light & Submarine Signalling.

The freeboards have been cut in on vessel's side & verified.

A plan of midship section as built together with 5 forging & casting reports are forwarded herewith.

This vessel is a sister vessel of SS "RABOTCHIE" same Builders No 169, Leningrad report No 20 & SS "ISKRA" " " " 170, " " " 21.

Particulars of <b>Drop Test</b> of Cast Steel Anchors, viz. :— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	1490 Kilos.	W.E.L. No 23.	20-7-27
	2nd "	1450 "	W.E.L. No 33	21-9-27
	3rd "	1420 "	W.E.L. No 37	28-9-27

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 19.8 ft., R.Q.D. - ft., Bridge 72.2 ft., Forecastle 31.9 ft.

(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated not joined.

Winch platforms.—at main mast 18.9 ft., at fore mast 18.9 ft.

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 ✓

Is bottom of Vessel coated with cement if not give

particulars of composition Tank under Boiler Room cemented, elsewhere in double bottom cement fillers at butts & seams of bottom plating.

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length.		Where Fitted.	Length.	
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	75.3	168	Fore peak tank,		51
Double bottom, under Engines and Boilers,	44.7	136	After peak tank,		20
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	107.8	265	Other tanks, if fitted,		
	Total capacity of double bottom	569	(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 March 1926

Dates of Surveys held while building

1926 Feb 22, Mar 17, Apr 10, June 26, 29, 30, July 2, Sep 24, 30, Oct 2, 13, 30, Nov 1, 5, 8, 9, 10, 12, 14, 16  
1927 Jan 24, Apr 9, May 18, 20, 27, 30, June 6, 8, 15, 17, 27, July 1, Sep 5, Dec 2  
1928 Feb 1, 6, Mar 23, Apr 18, May 7, 9, 21, 23, 28, June 1, 20, 25, July 29, 30.

Total No. of Visits 50