

STEEL ~~STEAMER~~ MOTORSHIP.

31 OCT 1929

Received at London Office

State if Report has been sent on the Freeboard of the Vessel yesState if Report is sent on the Machinery of the Vessel yesDate of completion of report 21st October 1929Port of LENINGRADNo. 39Survey held at LeningradDate First Survey 19th November 1926Last Survey 21st October 1929

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

Single Screw Motorship "SMOLNY"

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

Complete Superstructure, without Tonnage Opening

State Type of Erections R.A.D. Bridge & Fide.

TONNAGE under Tonnage Deck... 2934.03CLASS X 100 A.1State if with freeboard as condition of Class yesBuilt at LeningradDo. 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 331.5Launched 17th October 1927 Yard No. 306

Total

Breadth (greatest moulded) B 47.9Builders Severn Shipbuilding YardGross Tonnage 3767.18Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 27.7Owners Soviet Mercantile Fleet (Sovborg-flot)Register Tonnage 2164.391st Longitudinal Number (L x D) = 9183Managers ✓

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

2nd Numeral L x (B + D) = 25061Residence ✓

REGISTERED DIMENSIONS.

FEET.

Length 332.51Breadth 48.06Depth 25.62Framing Depth "d," at middle of length. See Sec. 3 (1d) 16.6Proportions—Depth to Length—Uppermost continuous deck to top of keel 12.0Do. Long Bridge to top of keel 9.28Draught Moulded 18'-8"Port of Registry Leningrad

If surveyed while building, afloat, or in dry dock

Building & Afloat

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	685	✓	Bracket Floors, Frame	160 x 80 x 14	✓
" " from <u>Frame 124</u> to Collision bulkhead	Btm. & U. Dk. 684	✓	" " Reversed Frame	160 x 80 x 12	✓
" " in peaks	610	✓	" " Vertical Struts	240 x 85 x 9 1/2 x 14	✓
" " fore peak	456	to 2 nd deck	Centre Girder, depth and thickness amidships	940 x 12	✓
" " above	608	2 nd deck	" " top Angles	75 x 75 x 12	✓
FRAMING.			" " bottom Angles	100 x 100 x 14	✓
Frame Amidships, Angle, [or]	200 x 75 x 8 1/2 x 12 1/2	aft & in Mch. Space	Side Girders, No. each side and thickness	one, 9	✓
" " Extends up to	160 x 65 x 7 1/2 x 11	ford. of Mch. Space	Margin Plate depth (excl. of flange) and thickness	760 x 11	✓
Reversed Frame Amidships, Angle	2 nd deck	✓	" " Vertical Angle to Tank side	90 x 90 x 10	✓
" " Extends up to	-		" " Bracket abaft 1/2 len. from stem	90 x 90 x 10	✓
Depth of Framing Girder	160 x 80 x 12	118 - ford.	" " Vertical Angle to Tank side	90 x 90 x 10 (double fr. 124 - ford.)	✓
Frames in Uppermost Continuous 'tween Decks, Angle, [or]	160 x 75 x 12	22 - 116	" " Bracket forward 1/2 len. from stem	90 x 90 x 10	✓
" " Second 'tween Decks, Angle, [or]	160 x 80 x 14	118 - ford.	" " Gussets, spacing and scantling	600 x 700 x 10	every 3 rd frame
" " Third " " "	160 x 80 x 12	118 - ford.	" " Gussets, spacing and scantling	600 x 700 x 10	every 2 nd frame
Framing in Peaks, Angle	160 x 80 x 12	118 - ford.	" " Gussets, spacing and scantling	600 x 700 x 10	every 2 nd frame
Number and Spacing of Rivets through Frame and Shell Plating amidships	22 & 19 mm	at 7 dias.	Tank Side Brackets, height above base line at toe of Frame and thickness	1420 x 10	✓
State if Frame Joggled	no		INNER BOTTOM PLATING.		
FRAMING ARRANGEMENTS (Sec. 7), state STRENGTHENING system and particulars	Frame 124 to Coll. bhd. 160 x 80 x 12 with rev. 75 x 75 x 10, spaced 456 mm. & side stringer as approved	✓	Breadth and thickness of Middle Line Strake	1500 x 11	✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars	Double frames & increased riveting as approved	✓	Thickness of remainder in Holds	10 - 8 1/2	✓
DOUBLE BOTTOM.			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	✓
Frames, Depth and thickness at mid-line in Holds	7		BEAMS.		
Height of Brackets at side above base line at toe of frame	7		Uppermost Continuous Deck, amidships	160 x 65 x 7 1/2 x 11	✓
Line Keelson, on Floors, Angles, [or]	7		" " in Wells, Angle, [or]	140 x 60 x 7 x 10 1/2	half beams.
" " Through Plate or Intercoastal Plate	7		" " in way of Bridge, Angle, [or]	do.	
" " Foundation Plate on Floors	7		Spacing	every frame	
" " Flat Plate Keel Angles	7		Second Deck, amidships, Angle, [or]	200 x 75 x 8 1/2 x 12 1/2	✓
Keelsons, No. each side	7		Spacing	every frame (& 912 mm. ford. of fr. 124)	✓
" " thickness of Intercoastal Plate	7		Third Deck, amidships, Angle, [or]	240 x 85 x 9 1/2 x 14	✓
" " Angles	7		Spacing	every frame	✓
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, [or]	200 x 75 x 8 1/2 x 12 1/2	✓
Solid Floors, thickness and spacing	9, every fr. under Mch. & ford. of 3/5 L elsewhere every 3 rd frame	✓	Spacing	every frame	✓
" " Are Frame and Reversed Frame joggled?	no		Poop Deck, Angle, [or]	-	
Bracket Floors, breadth and thickness at middle line	710 x 9	✓	Spacing	-	
" " breadth and thickness at margin plate	710 x 9	✓	Bridge Deck, Angle, [or]	160 x 65 x 7 1/2 x 11	✓
			Spacing	alter: frames	✓
			Forecastle Deck, Angle, [or]	140 x 60 x 7 x 10 1/2	✓
			Spacing	every frame	✓

	INCHES IN SHIP. mm.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP. mm.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....			Stringer Plate, breadth and thickness in way of Bridge	1600 x 9 in way of oil fuel tank	
" in 'tween Decks, Size and Spacing.....	Wide Spaced		Thickness of Plating abreast Deck openings in way of Wells	8 ✓	
" " " " " Pillars & Girders			Thickness of Plating abreast Deck openings in way of Bridge	8 ✓	
" in Holds " " as approved ✓			Thickness of Plating within line of openings...	7½ ✓	
" " " " "			If Sheathed, material and thickness	65 mm pine 12 M ¹ & 2 T. dks	
Centre Line Bulkhead.			Third Deck. in fore holds		
Stiffeners and Spacing.....			Stringer Plate, breadth and thickness.....	1145 x 9 ✓	
Plating, thickness of				M ¹ hold Plating 7½ x 8½ ✓	
			If Plated, state thickness.....	M ² hold Ties 1000 x 9 with 75 mm pine wood dk	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....	-	
Stringer Plate, breadth and thickness in Wells 1295 x 14 ✓			If Plated, state thickness	-	
" " " " in way of Bridge 1295 x 9 ✓			Poop Deck.		
" " at Bridge ends 19 ✓			Stringer Plate, breadth and thickness	-	
" Angle in Wells 140 x 140 x 12 ✓			Plating, Sheathing, material and thickness ...	-	
Thickness of Plating abreast Deck openings) in way of Wells	9½ ✓		Bridge Deck.		
Thickness of Plating abreast Deck openings) in way of Bridge	8½ x 8 ✓		Stringer Plate, breadth and thickness.....	1350 x 9½ ✓	
Thickness of Plating within line of openings...	8 ✓		Plating, Sheathing, material and thickness ...	8, & 65 mm pine ✓	
If Sheathed, material and thickness	65 mm pine		Forecastle Deck.		
Second Deck.			Stringer Plate, breadth and thickness.....	815 x 8 ✓	
Stringer Plate, breadth and thickness in Wells... 1350 x 9 ✓			Plating, Sheathing, material and thickness ...	6½ x 65 mm pine ✓	

SHELL PLATING.												
SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled?			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. of Rows of Rivets.	RIVETS.		STRAPPED OR LAPPED.
	Preadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches. mmbs.	Inches. mmbs.	Inches. mmbs.	Inches. mmbs.				Inches. mmbs.			Inches. mmbs.	
FLAT PLATE KEEL	1200	16	14	14	✓	Double	22	85 ⁵ / ₈	3	22	77	Lapped
„ DBLG. (if any)	-	-	-	-								
BOTTOM PLATING, No. of Strakes 4	1555 1530 1520 1660	13	13	11	at Stern Post 14 Boss Plating 15	Double	22	85 ⁵ / ₈	3	22	77	Lapped
BILGE PLATING, No. of Strakes 4	1740	12-5	19	11	✓	Double	19	76 ⁹ / ₈	3	19	67	Lapped
SIDE PLATING, No. of Strakes 3	1765 1760 1750	12-5	19 10 ¹ / ₂	10 ¹ / ₂	✓	Double	19	76 ⁹ / ₈	3	19	67	Lapped
UPPER DECK, Sheer- strake in Wells.....	1245	16	10 ¹ / ₂	10 ¹ / ₂	1 plate in aft will doubled	Double	22	85 ⁵ / ₈	4 x 3 ✓	22	77	Strapped
UPPER DECK, Sheer- strake in Bridge ...	„	16 x 13	(23 at Bridge ends)	✓		Double	22	85 ⁵ / ₈	3	25	100	Double Straps
STRAKE BELOW Sheer- strake in Wells.....	1245	14 ¹ / ₂	10 ¹ / ₂	10 ¹ / ₂		Double	22	85 ⁵ / ₈	3	22	67	Lapped
STRAKE BELOW Sheer- strake in Bridge ...	„	14 ¹ / ₂ & 12 ¹ / ₂				Double	22 & 19	85 ⁵ / ₈ & 76 ⁹ / ₈	3	22 & 19	77 & 67	Lapped
RAD Boss SIDE PLATING			7			Single	22 & 19	76 ³ / ₈ & 67 ³ / ₈	1	19	67	Lapped
BRIDGE SIDE PLATING ...		11 ¹ / ₂				Double	19	76 ⁹ / ₈	3	19	67	Lapped
FOREC'TLE SIDE PLATING			9 ¹ / ₂			Single	19	76	1	19	67	Lapped

WATER TIGHT BULKHEADS.				FORGING AND CASTINGS.			
Total No. of W.T. BULKHEADS in Vessel—							
Extending to Upper Deck (Sec. 3 c)		6 ✓		Casting or Forging.		Scantlings. mms.	Maker's Name.
" Deck next below		—		Keel, Bar		Flat Plate Keel.	Any departure from approved plans to be noted.
As per Rule		5		STEM		Lower part castings to plan Upper part rolled steel 220 x 60	Nevisky S&E Works Lworsky state steel works
				STERN FRAME		Propeller Post Rudder	castings to plan Nevisky S&E works
				RUDDER		4 x 11 3/4 m	Centre of pressure from E stock at 32° = 0.21 metres
				Speed of Vessel		1.3 knots	
				RUDDER		mainpiece at head	360 (rudder stock 300)
						heel	240
						how constructed	cast steel frame by forged steel stock by
						double or single plates	10
						coupling, vertical or horizontal	horizontal
MIDSHIP BULKH'D, Upper tween decks 6 1/2 420 x 80 x 10 760 ✓ " " Second "ford 8 1/2 - 7 1/2 416 x 414 " " " Third ford below 5 1/2 410 - 8 416 " " " Holds 10 - 7 1/2 422 x 420 " COLLISION " (in Hold) 12 - 8 1/2 420 600 AFTER PEAK " " 11 - 7 1/2 4160 x 80 x 12 4150 x 75 x 10 600				Reverse bars fitted to stiffeners in way of Girders as approved			
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) Open hearth process. Lworsky State Steel Works, Krasnoy Pskovskiy Steel Works, Monopol Metallurgical & Engineering Works, Metallurgical Works "Petrovsky", Zrieprvskiy Metallurgical Works, Petrovskiy Metallurgical Works "Ryloff", Witkowskiy Bergbau & Eisenhütte, Vereinigte Königs & Laurshütte Has the Steel been tested as required by the Rules? yes				STEEL.			

EQUIPMENT No. 26850				LETTER V		ANCHORS.		
Number of Certificate.	Anchors.	WEIGHT, EL. STOCK	WEIGHT OF STOCK	TEST, PER CERTIFICATE	WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Kilos. <small>Gross weight lbs.</small>	Kilos. <small>Gross weight lbs.</small>	Kilos. <small>Net weight lbs.</small>	Kilos. <small>Net weight lbs.</small>			
52	1st Bower ...	2 795	Stockless	46110	46110	Halls' stockless	Housley S-16-18 Loring.	Kolpino 14-12-27 W.E. Lewis
53	2nd " ...	2 805	"	46230	46230	"	" " "	Kolpino 20-12-27 W.E. Lewis
23	3rd " ...	2 690	"	44900	44900	"	" " "	Kolpino 2-9-27 W.E. Lewis
	Collected weight.	8290			7060 ✓			
44	Stream	771	196	16920	660 ✓	Admiralty Type	Isotoky Shere Steel and Kolpino.	Kolpino 29-11-27 W.E. Lewis
71	Kedge	131	45	6260		"	Krossing, Angkor and Nippon Nambu.	Kolpino 2-7-28 W.E. Lewis.

CHAIN CABLES.

HAWKERS AND WARPS.																			
Number of Certificate.	Length and size supplied.		Test per Certificate.		RIGHT 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.	Chr.		Length.	Chr.		
6	139 ft.	2 1/2	1382	72	1005	381 - 8 - 2 1/2	538 3/4	270	2	shd link	Krasnoy Anchor Works, Bogodny.	Malpino. 30-10-18 2200 lbs.	220 Mb.	4	33	165	2 1/2		
17	139-52M.	505	7250	101230	7886	K gms.		270	2	shd link	Bogodny.	220 Mb.	4	33	165	2 1/2			
19 & 48	Ewd. & Krasnoy	220 Mb.	4 1/2	39				165M.	4 1/2				185 -	3	13	165	2 1/2		
Lower Stream (Discharge Steel Wire)													"	165 -	2 1/2	12 1/2	165	2 1/2	
														"	165 -	2 1/2	12 1/2	165	2 1/2

Steering Gear, ~~Steam~~ Combined Electric & Hand Steering Gear Steering Gear, ~~Hand~~ Manufactured by the Severney Shipyard.

6 Lifeboats 27'-0" x 8'-6" x 3'-5"
2 " 27'-0" x 8'-3" x 3'-5"

Boats 1 Dinghy 16'-4" x 5'-0" x 2'-5" Steering Chains, Size and Test ✓ Windlass Electric by Severney Shipyard.

1 whaleboat 20'-0" x 6'-3" x 2'-3"

Coiling in Holds, thickness and material { 75mm pine in No. 1 & 4 holds
Insulation in No. 2 & 3 holds. ✓ Cargo Battens, thickness, material and spacing No. 2 x 3 holds 1" No. 2 Lower T. dles. insulated
No. 1 & 2 upper T. dles. close lined.

Cargo Hatchways.—(Upper Deck) Steel plates & angles as approved Thickness of Hatches 75 mm.

Size of No. 1 Hatchway (Forward) 22'-6" x 16'-6" No. 2 22'-3" x 16'-6" No. 3 22'-6" x 16'-6" No. 4 22'-6" x 16'-6" No. 5 No. 6

Number of ~~Shifting Beams~~ ^{T.B.T.} ~~Fore and Afters~~ No. 1 = 3, No. 2 = 4, No. 3 = 3, No. 4 = 3.

Builder's Signature *Mishkatiny*

GENERAL DECLARATION This vessel has been built in accordance with the approved plans, the Secretary's letters & the Society's Rules. The materials and workmanship are good. The double bottom tanks, the fore & after peak tanks, and the oil fuel bunkers at sides of engine room have been water tested under rule pressure and found satisfactory. The weather decks, watertight bulkheads, hatches and watertight doors have been satisfactorily fire tested. The watertight doors, hand pump, windlass, electric & hand steering gear have been examined & tried under working conditions & found satisfactory. The vessel is fitted with Cruiser Stern, Electric Light, Submarine signalling & Wireless including Direction Finder. The Freeboards as assigned by the Russian Register of Shipping have been cut in on vessels side; the markings agree with those originally assigned by the Committee. For particulars see Freeboard Verification Form. The weight of the chain cable is less than required by rule, but the collective weight of the power anchors is much in excess of rule requirements. See Secretary's letter, dated 25th Feb. 1929 for approval of equipment. ✓ A plan of midship section as built together with 5 ship forging & casting reports are forwarded herewith. Sister vessel M/S "FELIX DZERJINSKY" same builders N° 305.

The amount of Entry Fee	£	:	:	Fees applied for, 19	I am of opinion the Vessel should be Classed as LOA 1 with Freeboard Strengthened for Navigation in Ice
Special Survey Fee....	£	:	:		
Travelling Expenses, if any £	:	:	:	Received by me, 19	

State whether the Vessel has been built under Special Survey yes

1/2 Hull
Certificate ~~is~~ sent to "Arcos" London Date of issue 5/11/29

* 91214

Signature Alex E Stevenson Atcheson
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Character assigned

TUE. 5 NOV 1929

+ 100 M. With Freeboard

Lloyd's A & C P + R 10. 29 (Delinquencies)

Subject

6 T. 5 B. 71 lb. 5 B. 71 lb.

Note for hon

Strengthened for Navigation on Dec 2021

My

Lloyd's Register

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.)

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

1st Bower 1845 Kgrs. W.E.L. N° 32. 14.9.27
2nd „ 1910 Kgrs. W.E.L. N° 28. 24.7.27.
3rd „ 1745 Kgrs. W.E.L. N° 15. 8-6-27

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. 36.7 ft., Bridge 99.5 ft., Forecastle 41.2 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated no

No. and Material of Decks (this information is to be given as it should appear in the Register Book). 2 decks (steel—weather dk. W.S.), 3rd deck in forward holds

Official No. ☒ ; Signal Letters ☒ Is bottom of Vessel coated with cement ☐ if not give particulars of composition Bilges cemented; Inside of double bottom cement fillers at butts & seams of bottom plating

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	89.9	165	Fore peak tank,		38
Double bottom, under Engines and Boilers,			After peak tank,		50
Double bottom, if under Engines only ,	44.9	132	Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	125.8	244	Other tanks, if fitted,		
	Total capacity of double bottom	541	(If necessary, furnish further information by sketch.)		
	* 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 — Nov. 19. Dec. 17, 21, 29,
1927 — Jan. 3, 11, 27, Feb. 15, Mar. 8, 10, 15, 21, Apr. 7, May 3, 17, June 2, 7, 10, 23, 28, July 7, 21,
Sep. 1, 13, 15, 20, 22, 29, Oct. 4, 6, 8, 10, 11, 13, 16, 17, Nov. 1, 24.
1928 — Jan. 10, 12, 19, 24, Mar. 29, Apr. 19, Aug. 16, 23, 28, 30, Oct. 25, Nov. 1, 13, Dec. 18.
1929 — Feb. 5, Mar. 7, Apr. 23, 25, May 16, July 30, Sep. 12, 19, 20, 24, 25, 28, 30, Oct. 1, 2, 3, 10, 18, 21

Total No. of Visits

71