

RECEIVED

10 NOV 1949

IN D.O.

DISCLOSED SECTION NO
STEEL STEAMER OR MOTORSHIP.

10 NOV 1949

Received at London Office

State if Report has been sent on the Freeboard of the Vessel. Yes

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

Date of completion of report 24/10/49 Port of London

Survey held at London Date First Survey 13-5-49 Last Survey 20-8-1949

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Triple-Screw Icebreaker "L. KAGANOVICH"

State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling State Type of Erections None

TONNAGE under Tonnage Deck

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

Total

Gross Tonnage 5621

Register Tonnage 1734

REGISTERED DIMENSIONS.

FEET

Length 106.62 m.

Breadth 23.20 m.

Depth 9.79 m.

CLASS 100 A1

contemplated

State if with freeboard as condition of Class No.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) L 102.3

Breadth (greatest moulded) B 23.1

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 12.68

1st Longitudinal Number (L x D) =

2nd Numeral L x (B + D) =

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

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

Do. Long Bridge to top of keel =

Draught Moulded =

Built at Nicolief

Launched Yard No.

Builders State Yards, Nicolief

Owners U. S. S. R.

Managers

(Where necessary to be entered in Reg. Book)

Residence

Port of Registry VLADIVOSTOK

If surveyed while building, afloat, or in dry dock

Afloat & in dry-dock

FRAMES, DOUBLE BOTTOM AND BEAMS.

| | m/ms IN SHIP. | Any Departure from Approved Plans to be Noted. | | m/ms. IN SHIP. | Any Departure from Approved Plans to be Noted. |
|---|-----------------------|--|---|-------------------|--|
| FRAMES, Spacing amidships..... | 610 m/ms. | | Bracket Floors, Frame | | |
| " " from 1/3 length amidships to Collision bulkhead..... | ditto | | " " Reversed Frame..... | | |
| " " in peaks | ditto | | " " Vertical Struts | | |
| SIDE FRAMING. | | | Centre Girder, depth and thickness amidships | 1250 x 13.5 m. | |
| Frame Amidships, Angle, [or] | 240 x 90 x 12 | | " " top Angles | 90 x 90 x 14 | double |
| " " Extends up to..... | Upper Deck | | " " bottom Angles..... | 100 x 100 x 14 | double |
| Reversed Frame Amidships, Angle | | | Side Girders, No. each side and thickness..... | 2 @ 12 m/m. | |
| " " Extends up to | | | Margin Plate depth (excl. of flange) and thickness | 1100 x 13.5 | |
| Depth of Framing Girder..... | 240 m/ms. | | " " Vertical Angle to Tank side Bracket abaft 1/4 len. from stem | 90 x 90 x 12 | |
| Frames in Uppermost Continuous 'tween Decks, Angle, [or] | | | " " Vertical Angle to Tank side Bracket from forward 1/4 len. from stem to Panting Area | 90 x 90 x 12 | |
| " " Second 'tween Decks, Angle, [or] | | | " " Gussets, spacing and scantling abaft 1/4 len. from stem..... | | |
| " " Third | | | " " Gussets, spacing and scantling from forward 1/4 len. from stem to Panting Area | | |
| " " from 1/3 len. for'd. to 15% len. from Stem | 240 x 90 x 12 | | Tank Side Brackets, height above base line at toe of Frame and thickness | x 12 | |
| " " in Peaks, Angle or [or] | 240 x 90 x 12 | | INNER BOTTOM PLATING. | | |
| Diameter and Spacing of Rivets through Frame and Shell Plating amidships | 22 m/m x 130 m/m | | Breadth and thickness of Middle Line Strake... | 1200 x 13.5 | |
| State if Frame Joggled..... | No | | Thickness of remainder in Holds | 13.5 | |
| Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved? | 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?..... | | |
| Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved? | do. | | BEAMS. | | |
| SINGLE BOTTOM. | | | Uppermost Continuous Deck, amidships in Wells, Angle, [or] | 180 x 70 x 9 | |
| Floors, Depth and thickness at mid-line in Holds..... | | | " " in way of Bridge, Angle, [or] | | |
| Height of Brackets at side above base line at toe of frame..... | | | Spacing | 610 m/m | |
| Middle Line Keelson, on Floors, Angles, [or] | | | Second Deck, amidships, Angle, [or] | 180 x 70 x 9 | |
| " " Through Plate or Inter-costal Plate | | | Spacing | 610 m/m | |
| " " Foundation Plate on Floors | | | Third Deck, amidships, Angle, [or] | 220 x 75 x 11 | |
| " " Flat Plate Keel Angles | | | Spacing | 610 m/m | |
| Side Keelsons, No. each side..... | | | Fourth Deck, amidships, Angle, [or] | 180 x 70 x 9 | |
| " " thickness of Inter-costal Plate... | | | Spacing | 610 m/m | |
| " " Angles | | | Fifth Deck (clear of E. & B. spaces) Poop Deck, Angle, [or] | 180 x 70 x 9 | |
| DOUBLE BOTTOM. | | | Spacing | 610 m/m | |
| Solid Floors, thickness and spacing | 12 m/m on every frame | | Bridge Deck, Angle, [or] | | |
| " " Are Frame and Reversed Frame joggled? | No. | | Spacing | | |
| Bracket Floors, breadth and thickness at middle line | | | Forecastle Deck, Angle, [or] | | |
| " " breadth and thickness at margin plate | | | Spacing | | |

PILLARS AND DECKS.

| PILLARS, No. of Rows | m/mg | Any Departure from Approved Plans to be Noted. |
|---|----------------|--|
| in 'tween Decks, Size and Spacing | | |
| " " " " | | |
| " " " " | | |
| Centre Line Bulkhead, Stiffeners and Spacing | | |
| Plating, thickness of | | |
| STRINGERS AND DECKS. | | |
| Uppermost Continuous Deck. | | |
| Stringer Plate, breadth and thickness in Wells | 1200 x 12.5 | |
| " " " " in way of Bridge | | |
| " " " " Angle in Wells | 150 x 150 x 16 | |
| Thickness of Plating abreast Deck openings | 7.5 | |
| Thickness of Plating abreast Deck openings in way of Bridge | 7.5 | |
| Thickness of Plating within line of openings | 7.5 | |
| If Sheathed, material and thickness | 75 m/m wood | |
| Second Deck. | | |
| Stringer Plate, breadth and thickness in Wells | 1450 x 15 | |
| Stringer Plate, breadth and thickness in way of Bridge | | |
| Thickness of Plating abreast Deck openings | | |
| Thickness of Plating abreast Deck openings in way of Bridge | | |
| Thickness of Plating within line of openings | | |
| If Sheathed, material and thickness | | |
| Third Deck. | | |
| Stringer Plate, breadth and thickness | 75 m/m | |
| If Plated, state thickness | 1450 x | |
| Fourth Deck. | | |
| Stringer Plate, breadth and thickness | 8.5 | |
| If Plated, state thickness | 1100 x 12 | |
| Deck 5th Deck. (clear of E & B spaces) | | |
| Stringer Plate, breadth and thickness | 12 x 156 | |
| Plating, Sheathing, material and thickness | x 12 157 | |
| Bridge Deck. | | |
| Stringer Plate, breadth and thickness | 7.5 | |
| Plating, Sheathing, material and thickness | | |
| Forecastle Deck. | | |
| Stringer Plate, breadth and thickness | | |
| Plating, Sheathing, material and thickness | | |

SCANTLINGS. SHELL PLATING.

| STRAKES. | AS IN VESSEL. | | | | ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED. |
|------------------------------------|------------------|------------------|------------------|------------------|--|
| | AMIDSHIPS. | FORWARD. | AFT. | THICKNESS. | |
| Flat Plate Keel | Breadth. Inches. | Thickness. m/mg. | Thickness. m/mg. | Thickness. m/mg. | |
| " Dblg. (if any) | 17.5 | 22 | 17.5 | | |
| Bottom Plating, No. of Strakes | 16 | 22 | 16 | | |
| Edge Plating, No. of Strakes | 16 | 19 | 16 | | |
| Side Plating, No. of Strakes | 19 | 19 | 16 | | |
| Upper Deck, Sheer-strake in Wells | 22 | 19 | 19 | | |
| Upper Deck, Sheer-strake in Bridge | 25 | 22 | 22 | | |
| Side below Sheer-strake in Wells | 17 | 17 | 17 | | |
| Side below Sheer-strake in Bridge | 17 | 17 | 17 | | |
| Side below Sheer-strake in Bridge | 17 | 17 | 17 | | |
| Side below Sheer-strake in Bridge | 19 | 17 | 17 | | |
| Side below Sheer-strake in Bridge | 16 | 19 | 19 | | |
| Side below Sheer-strake in Bridge | 12.5 | 12.5 | 12.5 | | |
| Poop Side Plating | | | | | |
| Bridge Side Plating | | | | | |
| Forecastle Side Plating | | | | | |

| EDGES. | | RIVETING. | |
|-------------------|--------------------------|------------------------|--------------------------|
| SINGLE OR DOUBLE. | RIVETS. | No. OF ROWS OF RIVETS. | BUTTS. |
| | Diam. Spacing cr. to cr. | | Diam. Spacing cr. to cr. |
| Double | 22 90 | 4 | 22 75 |
| do | 22 " | 4 | 22 " |
| do | 22 " | 4 | 22 " |
| do | 25 100 | 4 | 22 " |
| do | 25 " | 4 | 25 85 |
| do | 25 " | 4 | " " |
| do | 25 " | 2 | " " |
| do | 25 " | 2 | " " |
| do | 25 " | 2 | " " |
| do | 25 " | 4 | " " |

WATERTIGHT BULKHEADS.

| | |
|--|---|
| Total No. of W.T. BULKHEADS in Vessel— | 9 |
| Extending to Upper Deck (Sec. 3 c) | 9 |
| " Deck next below | |
| As per Rule | |

FORGINGS AND CASTINGS.

| KEEL, Bar | CASTING OR FORGING. | SCANTLINGS. | MAKER'S NAME. | ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED. |
|---|---------------------|-------------|---------------|--|
| STEM | | | | |
| STERN FRAME | Propeller Post | | | |
| Speed of Vessel | Rudder | | | |
| RUDDER—Type | | | | |
| " A x D. | | | | |
| " Diam. of head | | | | |
| " Mainpiece at top pintle | | | | |
| " heel | | | | |
| " how constructed | | | | |
| " double or single plate coupling, vertical or horizontal | | | | |

STIFFENERS.

| MIDSHIP BULKHEAD, Upper 'tween decks | Plating Thickness. m/mg. | VERTICAL. | | HORIZONTAL. | |
|--------------------------------------|--------------------------|---------------|-----------|-------------|----------|
| | | SCANTLINGS. | SPACING. | SCANTLINGS. | SPACING. |
| " Second | 6.5 | L 90x60x10 | About 600 | | |
| " Third | 7 | L 120x80x8 | About 600 | | |
| " Holds (upto lower 2x) | 12.11 | welded toe on | About 600 | | |
| " (in Hold) | 12 | L 200x75x12 | About 600 | | |
| " | 8.8 | L 130x90x10 | About 600 | | |
| " | | welded toe on | About 600 | | |
| " | | As Collision | | | |

STEEL.

Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)

Has the Steel been tested as required by the Rules?

DECLARATION. It is hereby declared that the vessel, not being a steamship, is not subject to the provisions of the Merchant Shipping Act, 1906, and is not to be surveyed by the Registrar of Shipping.

This vessel is supervised by the Society is The far a train side dry tank to Rues The w.t. do The work A special

the amount of Entry Fee.....

Special Survey Fee.....

Travelling Expenses, if any.....

State whether the Vessel has been surveyed by the Registrar of Shipping.....

Certificate to be sent to.....

Committee's Minute.....

Character assigned.....

notification of the vessel in the Register
record of Survey," "to remain as classed

Surveyor to Lloyd's Register of

tness...

[illegible]

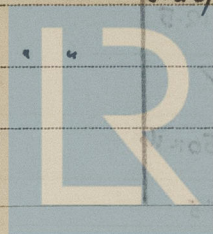
The Surrepors are requested not to write on or below the Committee's Minutes.

in a bower anchor is supplied it must be clearly stated whether it is a 1st, 2nd, or 3rd bower.

MANOVICH

CHAIN CABLES.

| Length and size supplied. | | Test per Certificate. | | WEIGHT OF CHAIN CABLE. | | Length and size per rule. | | Description. | Makers of Cables. | Where and when tested and Superintendent. |
|---------------------------|--------|-----------------------|-----------|------------------------|-----------------|---------------------------|-------|--------------|-------------------|---|
| Length. | Diam. | Statutory. | Breaking. | Supplied. | Per Rule. | Length. | Diam. | | | |
| Fathoms. | Inch. | Tons. | Tons. | Cwts. qrs. lbs. | Cwts. qrs. lbs. | Fathoms. | Inch. | | | |
| 59 2/3 | 2 3/16 | 86 1/10 | 120 1/2 | 146-3-6 | | | | Strad link | Not Stated | Cardiff 10/1/49 F.W. Doucy. |
| 15 | " | " | " | 35-3-10 | | | | " " | " " | Cardiff 17/12/48 F.W. Doucy |
| 15 | " | " | " | 36-0-16 | | | | " " | " " | ditto |
| 15 | " | " | " | 36-0-2 | | | | " " | " " | ditto |
| 15 | " | " | " | 35-3-20 | | | | " " | " " | ditto |
| 15 | " | " | " | 36-0-14 | | | | " " | " " | Chester 30/11/48 S. Bolton |
| 15 | " | " | " | 36-0-21 | | | | " " | " " | ditto |
| 15 1/3 | " | " | " | 36-3-5 | | | | " " | " " | ditto |
| 15 1/3 | " | " | " | 36-2-22 | | | | " " | " " | ditto |
| 15 1/3 | " | " | " | 36-3-6 | | | | " " | " " | ditto |
| 15 1/3 | " | " | " | 36-3-4 | | | | " " | " " | ditto |
| 15 1/3 | " | " | " | 37-0-0 | | | | " " | " " | ditto |
| 15 1/4 | " | " | " | 36-3-5 | | | | " " | " " | Chester 4/12/48 S. Bolton |
| 15 1/3 | " | " | " | 36-3-12 | | | | " " | " " | ditto |
| 15 | " | " | " | 36-0-18 | | | | " " | " " | Chester 28/12/48 S. Bolton |
| 15 1/6 | " | " | " | 37-1-14 | | | | " " | " " | Croley Heath 26/11/48 |
| 15 1/2 | " | " | " | 37-1-12 | | | | " " | " " | Phillips |



Lloyd's Register
Foundation

0071 3/3

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

PARTICULARS OF ELECTRIC WELDING (if employed) All main & minor bulkheads, fore & aft bulkheads to bunkers & side beeling tanks. E-8 easings, hatches, deckhouses.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book
Gyro-Compass.
Echo-Sounding.
Direction-Finding.

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

| | | | |
|------------|---------|-----------|---------|
| 1st Bower. | 46-2-41 | FWD. 6347 | 26/4/48 |
| 2nd " | 38-3-21 | FWD. 6346 | 26/4/48 |
| 3rd " | | | |

RADAR Equipment (State if fitted)
State Type or Pattern No.
State Name of Maker and/or Supplier.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop. ft., R.Q.D. ft., Bridge. ft., Forecastle. ft.
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated (Circ. 1611)
Signal Letters. Extreme Breadth over Belting (Circ. 1611)
No. and Material of Decks. 5 decks steel. Upper Deck sheathed with wood. 2nd deck sheathed with wood. Bottom of vessel covered with 50 mm of cement.
Parts of Bottom of Vessel coated with cement or approved composition. 232 metres Over-all Length (Circ. 1703) 106.6 metres

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284)
Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)
Where Fitted.
Double bottom, aft.
Double bottom, under Engines and Boilers.
Double bottom, if under Engines only.
Double bottom, if under Boilers only.
Double bottom, forward.
Total length (if continuous) and Capacity.

| Length. metres. | Water Capacity. Tons. |
|--------------------|--------------------------|
| 57.34 | |

Where Fitted.
Fore peak tank.
After peak tank.
Deep tank, aft.
Deep tank, forward.
Other tanks, if fitted.
(If necessary furnish further information by sketch.)
See Sketch.

Order for Special Survey No.
Date.

Dates of Surveys held while building

General Observations
State clearly whether this survey, thus, for example, survey, 1,38," or "to remain
This vessel is docking 10 and 90 fathoms placed on
Survey Fee (per Section 29)
Special Damage or Repair Fee (if any) (per Sec. 29)
Travelling Expenses (if chargeable)
Second Surveyor's Fee (if any)
Committee's Minute
Character Assigned