

STEEL BARGE.
STEEL STEAMER OR MOTORSHIP.

Received at London Office - 5 FEB 1931

State if Report has been sent on the Freeboard of the Vessel *no.*State if Report is sent on the Machinery of the Vessel *DB only.*Date of completion of report *Jan 8. 1931*Port of *Vancouver*No. *2846.*Survey held at *P. Rupert & Vancouver* Date First Survey *Aug 10 1930* Last Survey *Jan. 2 1931*On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *STEEL CAR FERRY "CANADIAN NATIONAL No. 109"*State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *BARGE*State Type of Erections *Bridge house on pillars aft.*TONNAGE under Tonnage Deck... *1131-49*CLASS *100A1* State if with freeboard *no* as condition of Class *no* FEET.Built at *P. Rupert*

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

Launched *Dec. 6. 1930* Yard No. *36*

Total

Builders *P. Rupert & Shipyard Ltd*Gross Tonnage *1149-46*Owners *Canadian Northern Steamship Co.*Register Tonnage *1131-49*

Managers

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

REGISTERED DIMENSIONS.

Length

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

10-5

Residence

Breadth

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

*21-39*Port of Registry *NEW WESTMINSTER*

Depth

Draught Moulded

If surveyed while building, afloat, or in dry dock

While building and afloat

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	<i>36</i>		Bracket Floors, Frame		
" " from $\frac{1}{2}$ length to Collision bulkhead			" " Reversed Frame		
" " in peaks			" " Vertical Struts		
DE FRAMING.			Centre Girder, depth and thickness amidships	<i>7 1/16 L 5 1/16</i>	
Frame Amidships, Angle, [or]	<i>7 3-5 1/2</i>		" " top Angles	<i>3 3 3/4</i>	
" " Extends up to <i>Deck</i>			" " bottom Angles	<i>3 1/2 1 1/2 1/2</i>	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	<i>4 5 1/16</i>	
" " Extends up to <i>4</i>			Margin Plate depth (excl. of flange) and thickness		
Depth of Framing Girder	<i>7</i>		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem		
Frames in Uppermost Continuous 'tween Decks, Angle, [or]			" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem		
" " Second 'tween Decks, Angle, [or]			" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem		
" " Third " " " "			" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem		
Framing in Peaks, Angle, [or]	<i>7 3-5 1/2</i>		Tank Side Brackets, height above base line at toe of Frame and thickness		
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>3/4 dia 4" dia</i>		INNER BOTTOM PLATING.		
State if Frame Joggled	<i>no</i>		Breadth and thickness of Middle Line Strake		
PLATING ARRANGEMENTS (Sec. 7), state system and particulars			Thickness of remainder in Holds		
STRENGTHENING OF BOTTOM FORWARD. State Particulars			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?		
DOUBLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	<i>18 5 1/16</i>		Uppermost Continuous Deck, amidships in way of Bridge, Angle, [or]	<i>8 3/32 7/16</i>	
Height of Brackets at side above base line at toe of frame	<i>48"</i>		" " in way of Bridge, Angle, [or]		
Middle Line Keelsons, on Floors, Angles, [or]			Spacing	<i>36</i>	
" " Through Plate or Intercoastal Plate			Second Deck, amidships, Angle, [or]		
" " Foundation Plate on Floors			Spacing		
" " Flat Plate Keel Angles	<i>3 1/2 3 1/2 1/2</i>		Third Deck, amidships, Angle, [or]		
Side Keelsons, No. each side			Spacing		
" " thickness of Intercoastal Plate			Fourth Deck, amidships, Angle, [or]		
" " Angles			Spacing		
SOLID BOTTOM.			Poop Deck, Angle, [or]		
Solid Floors, thickness and spacing			Spacing		
" " Are Frame and Reversed Frame joggled?			Bridge Deck, Angle, [or]		
Bracket Floors, breadth and thickness at middle line			Spacing		
" " breadth and thickness at margin plate			Forecastle Deck, Angle, [or]		
			Spacing		

PILLARS AND DECKS.

PILLARS, No. of Rows.	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
no pillars					
in 'tween Decks, Size and Spacing.....					
3 long diagonal Bulkheads					
in Holds					
Centre Line Bulkhead.					
Stiffeners and Spacing.....	4	3	3/4		
Plating, thickness of	7/16	6	5/16		
STRINGERS AND DECKS.					
Uppermost Continuous Deck.					
Stringer Plate, breadth and thickness	60		1/2		
in way of Bridge					
Angle	3 1/2	3 1/2	1/2		
Thickness of Plating abreast Deck openings			3/4		
Thickness of Plating abreast Deck openings in way of Bridge					
Thickness of Plating within line of openings...					
If Sheathed, material and thickness					
Second Deck.					
Stringer Plate, breadth and thickness in Wells...					
Stringer Plate, breadth and thickness in way of Bridge					
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.....					
If Plated, state thickness.....					
Fourth Deck.					
Stringer Plate, breadth and thickness.....					
If Plated, state thickness					
Poop Deck.					
Stringer Plate, breadth and thickness					
Plating, Sheathing, material and thickness ...					
Bridge Deck.					
Stringer Plate, breadth and thickness.....					
Plating, Sheathing, material and thickness ...					
Forecastle Deck.					
Stringer Plate, breadth and thickness.....					
Plating, Sheathing, material and thickness ...					

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>no</i> State if jogged?			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.									Inches.
FLAT PLATE KEEL	<i>60</i>	<i>1/2</i>	<i>1/2</i>	<i>1/2</i>		<i>dbl.</i>	<i>3/4</i>	<i>3</i>	<i>Keel</i>	<i>3/4</i>	<i>2 5/8</i>	<i>Lapped.</i>	
„ DBLG. (if any)													
BOTTOM PLATING, No. of Strakes <i>2</i>	<i>72</i>	<i>3/8</i>	<i>3/8</i>	<i>3/8</i>		<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	
BILGE PLATING, No. of Strakes <i>1</i>	<i>52</i>	<i>7/16</i>	<i>7/16</i>	<i>7/16</i>		<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	
SIDE PLATING, No. of Strakes <i>1</i>	<i>70</i>	<i>3/8</i>	<i>3/8</i>	<i>3/8</i>		<i>do</i>	<i>do</i>	<i>do</i>	<i>Keel.</i>	<i>do</i>	<i>do</i>	<i>do</i>	
UPPER DECK, Sheer-strake WORKS	<i>60</i>	<i>1/2</i>	<i>1/2</i>	<i>1/2</i>		<i>do</i>	<i>do</i>	<i>do</i>	<i>double 4 rows</i>	<i>do</i>	<i>do</i>	<i>do</i>	
UPPER DECK, Sheer-strake in Bridge ...													
STRAKE BELOW Sheer-strake WORKS	<i>70</i>	<i>3/8</i>	<i>3/8</i>	<i>3/8</i>		<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	<i>do</i>	
STRAKE BELOW Sheer-strake in Bridge ...													
POOP SIDE PLATING													
BRIDGE SIDE PLATING ...													
FOREC'TLE SIDE PLATING													

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) 5

Deck next below ✓

As per Rule ✓

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				
STEM				
STERN FRAME { Propeller Post ... Rudder Channels 8 x 3 1/2 x 7/16 with deep plate brackets, riveted to strops.				
RUDDER—A x D				
Speed of Vessel				
RUDDER mainpiece at head ...	3 1/2			
heel ...	3			
how constructed	Single plate, balanced, forged around			
double or single plate	Single plate 1/2"			
coupling, vertical or horizontal	no coupling			

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper decks	all bulkheads				
" " "	similar				
" " "	7/16	5 x 3 1/8	average 28"		
" " Holds	spacing.				
COLLISION " (in Hold)					
AFTER PEAK "					

STEEL.

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

B.H. Steel. U.S. Steel. Pittsburg.

Has the Steel been tested as required by the Rules? yes

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.)

Non return valves to each duction.

A sea suction is also provided.

The pumps are two steam driven duplex (Sift 6 x 5 1/4 x 6 inches) fitted in donkey boiler house.

A steam mudlass is fitted aft, operating both anchors, and has been tested out. Two steam capstans are fitted for loading & unloading.

The Survey during Construction at Bruce Reef was under D. A. G. Ross, acting for this office.

Equipment. See copy of N. York telegram dated Feb 28. 1930
Plans attached

Boiler. Casings & deck house. Midship section

General arrangement & construction

Rudder & Skeg.

Boat arrangement

Sections. Pocket & Rails forward

Bumpers.

See N York Letter of 22. & May 13. 1930

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

1st Bower 10. 1. 21. K.H. 8449. Aug 15. 1930
2nd „ 10. 1. 10 K.H. 8307 July 25. 1930
3rd „

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ft., R.Q.D. ft., Bridge ft., Forecastle (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated.

No. and Material of Decks (this information is to be given as it should appear in the Register Book)

No erections
1 deck Steel.

Official No. 156975 ; Signal Letters

Is bottom of Vessel coated with cement No if not

particulars of composition Bitumastic enamel.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water C T
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,			After peak tank,		
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,	✓	
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
Total capacity of double bottom			(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. 6

Date May 1. 1930

Dates of Surveys held while building

Aug. 10. 13. 17. 20 24. 28 31 Sep. 21. 24. 28.
Oct 5. 12. 15. 19. 22. 26. Nov. 2. 9. 13. 16. 20. 23. 27
Dec. 3. 4. 6. 7. 10. 14. 18. (1930)
Jan 2. 1931

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