

## STEEL STEAMER or MOTORSHIP.

Received at London Office 27 AUG 1928

State if Report has been sent on the Freeboard of the Vessel *no*State if Report is sent on the Machinery of the Vessel *yes*Date of completion of report *August 4th, 1928* Port of *Toronto* No. *282*  
Survey held at *Collingwood, Ont.* Date First Survey *Mar. 24th* Last Survey *Aug 3rd* 1928On the (State of Machinery fitted and if Single, Twin or Triple Screw) *Steel Steam Single Screw Hopper Barge "CHESTERFIELD" (mach. aft.)*

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

State Type of Erections

TONNAGE under 638.28  
Tonnage DeckGLASS "HOPPER BARGE" State if with freeboard as condition of Class *no*Built at *Collingwood, Ont.*

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 180.0*Launched *June 30th/28* Yard No. *82*

Total 638.28

Breadth (greatest moulded) *B 32.0*Builders *Collingwood Shipyards, Ltd.*

Gross Tonnage 733.61

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 14.5*Owners *(Minister of Railways & Canals)*

Register Tonnage 268.09

1st Longitudinal Number (L x D) = 2610

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

2nd Numeral L x (B + D) = 8370

Residence *Ottawa, Canada.*REGISTERED DIMENSIONS.  
FEET.

Length 180.0

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

12.41

Breadth 32.14

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

Do. Long Bridge to top of keel

Depth 13.44

Draught Moulded 12.58

Port of Registry *Collingwood, Ont.*If surveyed while building, afloat, or in dry dock  
*Surveyed while Building.*  
*Vessel dry docked after launching.*

## 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.
<b>FRAMES, Spacing amidships</b>	23		<b>Bracket Floors, Frame</b>		
" " from 1/4 length to Collision bulkhead	23		" " Reversed Frame		
" " in peaks	23		" " Vertical Struts		
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b>		
Frame Amidships, Angle, <i>E or F</i>	5 3 9.8		" " top Angles		
" " Extends up to <i>upper deck</i>			" " bottom Angles		
Reversed Frame Amidships, Angle <i>3 1/2 3 6.6</i>			<b>Side Girders, No. each side and thickness</b>		
" " Extends up to <i>Bulge</i>			<b>Margin Plate</b> depth (excl. of flange) and thickness		
Depth of Framing Girder			" " Vertical Angle to Tank side		
Frames in Uppermost Continuous 'tween Decks, Angle, <i>E or F</i>			Bracket abaft 1/4 len. from stem		
" " Second 'tween Decks, Angle, <i>E or F</i>			" " Vertical Angle to Tank side		
" " Third " " "			Bracket forward 1/4 len. from stem		
Framing in Peaks, Angle <i>E or F</i>	5 3 9.8		" " Gussets, spacing and scantling		
Diameter and Spacing of Rivets through Shell Plating	<i>3" 5 1/2" amidship</i> <i>4" dia. 4" R.F. Tank-F.P.</i> <i>3" 1/2" 4" 1/2" 4" 1/2"</i>		abaft 1/4 len. from stem		
State if Frame Joggled	<i>no</i>		" " Gussets, spacing and scantling		
<b>PANTING ARRANGEMENTS</b> (Sec. 7), state system and particulars			forward 1/4 len. from stem		
<i>Side stringers + lower deck</i>			<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>		
<b>STRENGTHENING OF BOTTOM FORWARD.</b> State Particulars			<b>INNER BOTTOM PLATING.</b>		
<b>SINGLE BOTTOM.</b>			Breadth and thickness of Middle Line Strake		
Floors, Depth and thickness at mid-line in Holds	18 14		Thickness of remainder in Holds		
Height of Brackets at side above base line at toe of frame	<i>30" in Hopper</i> <i>36" elsewhere</i>		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?		
Middle Line Keelson, on Floors, Angles	7 3 16.4		<b>BEAMS.</b>		
" " Through Plate or Intercoastal Plate	15 13		Uppermost Continuous Deck, amidships in Wells, Angle, <i>E or F</i>	4 3 7.2	
" " Foundation Plate on Floors			" " in way of Bridge, Angle, <i>E or F</i>	5 3 9.8	
" " Flat Plate Keel Angles	3 1/2 3 1/2 8.5		Spacing <i>Howard</i>	6 3 11.7	
Side Keelsons, No. each side	<i>two</i>			23	
" " thickness of Intercoastal Plate	4 3 8.5		<b>Second Deck, amidships, Angle, <i>E or F</i></b>		
" " Angles <i>Top all Bottoms</i>	3 3 6.1		Spacing		
<b>DOUBLE BOTTOM.</b>			<b>Third Deck, amidships, Angle, <i>E or F</i></b>		
Solid Floors, thickness and spacing			Spacing		
" " Are Frame and Reversed Frame joggled?			<b>Fourth Deck, amidships, Angle, <i>E or F</i></b>		
Bracket Floors, breadth and thickness at middle line			Spacing		
" " breadth and thickness at margin plate			<b>Poop Deck, Angle, <i>E or F</i></b>		
			Spacing		
			<b>Bridge Deck, Angle, <i>E or F</i></b>		
			Spacing		
			<b>Forecastle Deck, Angle, <i>E or F</i></b>	6 3 15.6	
			Spacing	46	

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## PILLARS AND DECKS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>PILLARS, No. of Rows.</b>	<i>Two</i>		Stringer Plate, breadth and thickness in way of Bridge		
" in 'tween Decks, Size and Spacing.....	<i>Howard 2 1/2" dia solid 3'-10"</i>		Thickness of Plating abreast Deck openings in way of Wells		
" " " "Eng Room	<i>3" dia solid 11'-6"</i>		Thickness of Plating abreast Deck openings in way of Bridge		
" " " "Boiler Rm.	<i>single iron 3" dia solid 5'-9"</i>		If Sheathed, material and thickness		
" in Holds					
<i>Hopper Side</i>			<b>Third Deck.</b>		
<b>Centre Line Bulkhead.</b>			Stringer Plate, breadth and thickness		
Stiffeners and Spacing.....	<i>5 x 3 x 9.8 angle</i>	<i>23"</i>	If Plated, state thickness		
Plating, thickness of		<i>18"</i>			
<b>STRINGERS AND DECKS.</b>			<b>Fourth Deck.</b>		
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness		
Stringer Plate, breadth and thickness in Wells	<i>63 23 to 17</i>		If Plated, state thickness		
" " " "R.Q.D. in way of Bridge	<i>43 17 to 12</i>		<b>Poop Deck.</b>		
" Angle in Wells	<i>4 x 4 x 11.3</i>		Stringer Plate, breadth and thickness		
Thickness of Plating abreast Deck openings in way of Wells			Plating, Sheathing, material and thickness		
Thickness of Plating abreast Deck openings in way of Bridge	<i>12 to 10.2</i>		<b>Bridge Deck.</b>		
If Sheathed, material and thickness	<i>3 B.C. Lin.</i>		Stringer Plate, breadth and thickness		
<b>Second Deck.</b>			Plating, Sheathing, material and thickness		
Stringer Plate, breadth and thickness in Wells			<b>Forecastle Deck.</b>		
			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.		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.	
<i>in Hoppers</i>	Inches.	Inches.	Inches.	Inches.			Inches.		Inches.		
FLAT PLATE KEEL	30	21 #				<i>Single in Hoppers.</i>	<i>1 7/8 3 3/8</i>				
<i>in E.T.B. spo.</i>	42	24 #	22 #	21 #		<i>Double Elsewhere</i>	<i>7/8 3 3/8</i>	<i>Three</i>	<i>7/8</i>	<i>3 3/8</i>	<i>shipped</i>
" DBLG. (if any)											
BOTTOM PLATING, No. of Strakes	51	16 #	14 #	14 #		<i>Double</i>	<i>3/4 3</i>	<i>Two</i>	<i>3/4</i>	<i>2 7/8</i>	<i>Lapped</i>
BILGE PLATING, No. of Strakes	60	16 #	16 #	14 #		"	<i>3/4 3</i>	<i>Three</i>	<i>3/4</i>	<i>2 7/8</i>	<i>Lapped</i>
SIDE PLATING, No. of Strakes	58	16 #	14 #	14 #		"	<i>3/4 3</i>	<i>Three</i>	<i>3/4</i>	<i>2 7/8</i>	<i>Lapped</i>
UPPER DECK, Sheer-strake in Wells	39	21 #	14 #			"	<i>7/8 3 1/2</i>	<i>Three</i>	<i>7/8</i>	<i>3 1/8</i>	<i>Lapped</i>
UPPER DECK, Sheer-strake in Bridge	63	21 #		16 #		"	<i>7/8 3 1/2</i>	<i>Three</i>	<i>7/8</i>	<i>3 1/8</i>	<i>Lapped</i>
STRAKE BELOW Sheer-strake in Wells		<i>17 # doubling at break of R.Q.D.</i>									
STRAKE BELOW Sheer-strake in Bridge											
POOP SIDE PLATING	<i>none</i>										
BRIDGE SIDE PLATING	<i>none</i>										
FORECASTLE SIDE PLATING	48 #	12 #				<i>Single</i>	<i>3/4 3</i>	<i>Two</i>	<i>3/4</i>	<i>2 7/8</i>	<i>Lapped</i>

## 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.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar	<i>Flat plate</i>			
STEM	<i>Roller steel</i>	<i>6 1/2 x 2</i>		
STERN FRAME	Propeller Post	<i>Casting 6 1/4 x 4 1/2</i>	<i>Dominion Foundries and Steel Rd.</i>	
	Rudder	<i>do 5 3/4 x 4 1/2</i>		
RUDDER—A x D 33.44 x 2.488 83.20				
Speed of Vessel	<i>9 knots</i>			
Rudder stock	<i>Longing 1 1/2" dia</i>	<i>Eric Hoag.</i>		
RUDDER mainpiece at head	<i>Casting 6 1/4 x 4 1/2</i>			
" " heel	<i>4 1/2 x 4 1/2</i>			
" how constructed	<i>main piece at and between pinholes</i>			
" double or single plate coupling, vertical or horizontal	<i>Single 7/8</i>			

## STEEL.

Manufacturer's name or trade mark of the Steel used in the construction of the

Vessel (state process of manufacture)

Worth Steel Comp. by open hearth process

Has the Steel been tested as required by the Rules?

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Tween decks					
" " "					
" " "					
" " "					
" " "					
" " "					
" " "					
" " "					
" " Holds	<i>16.5</i>	<i>5 x 3 x 9.8 angle</i>	<i>24</i>	<i>none</i>	
COLLISION (in Hold)	<i>12.0</i>	<i>do</i>	<i>24</i>	<i>6 x 3</i>	<i>48"</i>
AFTER PEAK	<i>30.0</i>	<i>do</i>	<i>30</i>	<i>none</i>	







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.)

- (1) Scantling Sections.
- (2) Longitudinal and Deck Framing.

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

1st Bower 17 cast o.g. 20 lbs., K.H. 5020, 15.11.27.  
2nd „ 16 cast 2 g. 26 lbs., K.H. 5082, 29.12.27.  
3rd „

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. 75.75 ft., Bridge — ft., Forecastle 24.5 ft.  
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated —

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

Official No. 154773 ; Signal Letters  
particulars of composition Two coats red lead paint If bottom of Vessel has been coated Inside no give

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	—	—	Fore peak tank,	10	32
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, <i>Feed tanks (2)</i>	—	10 each
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.

Date

Dates of Surveys held while building

Mar 24, Apr 10, Apr 20, May 2, May 12, May 22, May 28, June 6,  
June 7, June 26, June 27, June 29, June 30, July 9, July 16, July 17,  
July 23, July 24, July 27, Aug 3rd

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Total No. of Visits 20