

With or Without Disconnected Erections.

STEEL STEAMER.

MON. APR. 28. 1913

Received at London Office.

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

Date of completion of report *25.4.13*

Port of *SUNDERLAND*

No. *25665*

Survey held at *SUNDERLAND*

Date, First Survey *2 August*

Last Survey *21 April 1913*

On the *(State if Single, Twin, or Triple Screw)*

STEEL SCREW STEAMER "HAREWOOD"

Rig *SCHOONER*

TONNAGE under

CLASS *100 A.1.*

FEET.

Master *J. Courtney*

Year of appointment *(1) As Master in service of owner of present vessel: 1911 (2) As Master of this vessel: 1913*

Tonnage Deck... *3827.22*

Breadth (greatest moulded) *50.62*

Do. between Tonnage Dk. and 2nd and 3rd Dk. *36*

Depth, at middle of length from top of keel to top of upper deck beams at side *28.41*

Total under Upper Dk. *52.14*

Transverse Number *79.03*

Do. of Poop Hatch *18.13*

Length on deck from fore part of stem to after part of stern post *351.75*

Do. of Forecastle *43.73*

Longitudinal Number *27798.8*

Do. of Houses on Dk. *85.48*

Depth "d," at middle of length (See Secs. 2 & 13) *25.0*

Do. of excess of Hatchways *41.49.75*

Proportions—Depths to Length—Upper Deck Beam at side to top of keel *12.38*

Do. above Crown of Engine Room *109.60*

" " Long Bridge Deck Beam at side to top of keel *9.79*

Gross Tonnage *4149.75*

Destined Voyage *Narvik*

Surveyed while Building *Afloat, or in Dry Dock UNDER SPECIAL SURVEY*

Less Crew Space *109.60*

Less above Crown of Engine Room *85.48*

TONNAGE FOR FEES *3954.67*

Less Engine Room *1327.92*

tion Spaces *41.93*

Ballast *100.40*

Tonnage Beam *2569.90*

On Deck Rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH, ACTUAL—Top of Deck to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid
	351	9		50	7 1/2	Do. do. do. Second Dk. Beams	25	1 1/2	ONE

ms of Ship per Register, Length *351.75* breadth *50.95* depth *25.95* Moulded depth, ft. *35* ins. *11* To Bridge Dk. Round of Upper *12* ins. Moulded depth, ft. *28* ins. *5* To Upper Dk. Dk. Beam, Actual

FRAMING.				PILLARS.			
Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches per Rule Or as Approved.
E. Angles, \angle Bars amidships <i>12 3 1/2 62 12 3 1/2 62</i>				PILLARS, In 'tween Deck, size and spacing <i>SINGLE CHANNEL 7 3/4 x 3 1/2 44 5' 11" 1/2</i>			
in peaks <i>17 3 1/2 42 7 3 1/2 42</i>				" " Hold " " <i>DOUBLE CHANNEL 7 3/4 x 3 1/2 56 60 5' 11" 1/2</i>			
in way of Double Bottoms at Solid Floors <i>3 1/2 3 1/2 38 3 1/2 3 1/2 38</i>				" " Quarter 'tween Dks., " " " "			
" " at intermdt. Dkts. <i>MOORS ON EVERY FRAME</i>				" " in-Hold " " " "			
of Frames from centre to centre amidships from $\frac{1}{2}$ length to Collision bulkhead <i>25 1/2 25 1/2</i>				KEELSONS & STRINGERS.			
" " " in peaks <i>24 24</i>				CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate			
RESID FRAME, Angles <i>3 1/2 3 1/2 38 3 1/2 3 1/2 38 48 05</i>				" Rider Plate			
in way of Double Bottoms at Solid Floors <i>3 1/2 3 1/2 38 3 1/2 3 1/2 38 48 05</i>				" Flat Plate Keel Angles			
" " at intermdt. Dkts. <i>CELLULAR BOTTOM</i>				" Horizontal Plates on Floors			
HING, depth of girder <i>12 12</i>				" Angles or Bulb Angles			
ORS, depth and thickness of Floor Plate at mid-line for $\frac{1}{2}$ length amidships <i>CELLULAR BOTTOM</i>				SIDE KEELSONS, Number			
in way of Engine and Boiler Spaces <i>CELLULAR BOTTOM</i>				" Angles or Bulb Angles			
thickness at the ends of vessel <i>BOTTOM</i>				" Plate above floors, for length			
depth at $\frac{1}{2}$ the half breadth, as per Rule				" Intercoastal Plate, for length			
height extended at the Bilges				" Attached to outside Plating with Angle			
ORS in Cell. Double Bottoms <i>38 42 1/4 54 1/4 38 42 1/4 54 1/4</i>				BILGE KEELSON, Angles			
state if flanged (top & bottom) <i>NO</i>				" Intercoastal Plate for <i>163.0</i> length			
Spacing of Solid floors <i>25 1/2 25 1/2</i>				" Attached to outside Plating with Angle			
TRE GIRDER, in Dbl. bottom, dpth. & thknss. <i>41 50 66 05 41 50 66 05</i>				SIDE STRINGERS, Number <i>TWO</i>			
" " Angles, Top <i>SINGLE 4 1/2 4 1/2 58 4 1/2 4 1/2 58</i>				" " Angle			
" " Bottom <i>DOUBLE 4 1/2 4 1/2 58 4 1/2 4 1/2 58</i>				" Intercoastal Plate, for <i>11 1/2</i> length			
" " to Floors <i>SINGLE 6 6 44 6 6 44</i>				" Attached to outside plating with Angle			
Brackets at intermdt. frmg., wdth & thknss				Upper Deck Stringer Plate, br'dth & thickness (clear of Bridge)			
E GIRDERS, number on each side & thickness <i>2 on each 36 52 05 2 on each 36 46 05</i>				" " " " br'dth & thickness (in way of Bridge)			
state if flanged (top and bottom) <i>NO</i>				" " " " Angle (clear of Bridge)			
Angles (top and bottom) <i>3 1/2 3 1/2 38 3 1/2 3 1/2 38 48 05</i>				" " Tie Plate at sides of Hatchways			
" " to Floors <i>3 1/2 3 1/2 38 3 1/2 3 1/2 38 48 05</i>				Deck. * Iron or Steel, for <i>11 1/2</i> lng.			
RGIN PLATE, depth (exclusive of flange) and thickness <i>35 44 52 05 35 44 52 05</i>				" Thickness (clear of Bridge)			
Angles to Outside Plating <i>3 1/2 3 1/2 44 3 1/2 3 1/2 44</i>				" (in way of Bridge)			
" " Floors <i>3 1/2 3 1/2 38 3 1/2 3 1/2 38 48 05</i>				Wood Deck. Material & thickness <i>NO WOOD DECK Laid</i>			
Brackets at intermdt. frmg., wdth & thknss				Second Deck Stringer Plate, br'dth & thickness			
Height of Outside Brackets above at bilge <i>23 23</i>				" Angles on ditto, No.			
NER BOTTOM PLATING, breadth and thickness of Middle Line Strake <i>66 50 60 05 66 50 60 05</i>				" Tie Plates outside Hatchways			
" " in Engine and Boiler space <i>66 50 60 05 66 50 60 05</i>				Deck. * Iron or Steel, for lng.			
" " Remainder in Holds <i>1 1/4 42 1 1/4 42</i>				Wood Deck. Material & thickness			
EAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel <i>9 3 1/2 50 9 3 1/2 50</i>				Third Deck Stringer Plate, br'dth & thickness			
" In way of Long Bridge <i>8 1/2 3 46 8 1/2 3 46</i>				" Angles on ditto, No.			
" Spacing <i>25 1/2 25 1/2</i>				" Tie Plates, outside Hatchways			
EAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel <i>9 3 1/2 50 9 3 1/2 50</i>				Deck. * Material and thickness			
" Spacing <i>25 1/2 25 1/2</i>				Fourth and Fifth Deck Stringer Plate, breadth & thickness			
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel <i>9 3 1/2 50 9 3 1/2 50</i>				" Angles on ditto, No.			
" Angles on upper edge <i>3 1/2 3 34 3 1/2 3 34</i>				" Tie Plates outside Hatchways			
" Spacing <i>25 1/2 25 1/2</i>				Deck. Material & thickness			
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel <i>6 3 40 6 3 40</i>				Poop Deck Stringer Plate, breadth & thickness			
" Angles on upper edge <i>24 25 1/2 24 25 1/2</i>				" Angle on ditto			
" Spacing <i>24 25 1/2 24 25 1/2</i>				Tie Plates			
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel <i>8 3 44 8 3 44</i>				Deck. Material and thickness			
" Angles on upper edge <i>24 25 1/2 24 25 1/2</i>				Bridge Deck Stringer Plate, br'dth & thickness			
" Spacing <i>24 25 1/2 24 25 1/2</i>				" Angle on ditto			
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel <i>9 3 40 9 3 40</i>				Tie Plates			
" Angles on upper edge <i>3 1/2 3 34 3 1/2 3 34</i>				Deck. Material and thickness			
" Spacing <i>48 57 48 57</i>				Forecastle Deck Stringer Plate, br'dth & thickness			

* If Iron or Steel Deck, state if whole or part, and if Wood Deck is laid thereon.

GENERAL REMARKS—(continued).

W
WEB-FRAMES
" " No. of
WEB-FRAMES
" " No. of
" " Size of
BRACKET PLATE
Web Frames
BULKHEAD
W.T.BULKHEAD
Fore Head
After Head
After Head
" COLLISION
PARTITION
LONGITUDINAL
Are the outside
Are the Sluice
STRAIGHT
FLAT PLATE
(If Bar Keel, state
GARBOARD OF
State actual
thickness in
way of Double
Bottom.
Upper Sheer
Lower Sheer
THICKNESS OF
CLEAR OF LO
Do. OF ST
DECK OF FLA
" Sh
Length and
POOP SIDES
SHORT BRID
FORECASTLE
Upper D
Stringer I
Second D
Stringer I
FRAMES e
REVERSE
OWER M
owaput
opmasts,
gging, M
hills. 14

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 24.87 ft., R.O.D. ft., Bridge 144.5 ft., Forecastle 31.5 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *not joined*

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as should appear in the Register Book) *10th St.*

Official No. 135215 ; Signal Letters

State if Machinery is fitted aft *no*.

How are the surfaces preserved from oxidation? Inside *portland cement + paint* Outside *paint*.

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors *cellular system*.

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	121	379	Fore peak tank,		96
Double bottom, under Engines and Boilers,	42	166	After peak tank,		214
Double bottom, if under Engines only,			Deep tank, aft,		✓
Double bottom, if under Boilers only,			Deep tank, forward,		✓
Double bottom, forward,	146	500	Other tanks, if fitted,		✓
Total capacity of double bottom		1045	(If necessary, furnish further information by sketch.)		

* The wells are not to be included in the lengths of the tanks.

State whether the above have been tested as required by the Rules. *yes*.

Order for Special Survey No. 5020

Date 16.2.1912

No. 496 in builder's yard.

DATES OF SURVEYS held while building

1912 Aug. 2, 26 Sept. 2, 5, 17, 25 Oct. 3, 7, 11, 14, 18, 21, 25, 28, 30 Nov. 5, 8, 15, 18, 21, 25, 28, 30
Dec. 3, 5, 10, 18, 20, 30, 31 Jan. 7, 9, 11, 17, 20, 23, 25, 29 Feb. 1, 3, 7, 8, 10, 12, 13, 14, 15, 18, 19, 28
Mar. 3, 4, 6, 10, 11, 14, 17, 20, 26, 28 Apr. 3, 4, 8, 10, 15, 16, 21

Surveyor's Signature *B. M. McEwen*

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Total No. of Visits 67

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