

# IRON SHIPS.

Rev 8/6/64

0. 3469 Survey held at Hull Date 2<sup>nd</sup> June 1864  
the SS. "Himarkken" Master Smith

Tonnage Gross 42 Engine Room 114 Register 315<sup>15</sup>/<sub>100</sub> Built at Hull

When Built 1864 By whom built The Humber Iron Works & Ship Building Co. (Limited) Owners Nordlandske Linnmarkske  
Launched at Bergen Destined Voyage Bergen Steam navigation Co. Ltd.

Port belonging to Bergen Surveyed Afloat or in Dry Dock Special Survey In the Humber Iron Works & Ship Building Co. Limited  
drying building Master Managing Director

Length aloft 175 Feet. 166.6 Inches. Extreme Breadth 24 Feet. 24 Inches. Depth from top of Upper Deck 13 Feet. 13 Inches. Beam to top of Floor 13 Feet. 13 Inches. Power of Engines 70 Horse No.

Distance of Frames or Ribs from moulding edge to moulding edge, all fore and aft	Inches in Ship.	Inches required per Rule.	Stem, if bar iron, moulding and thickness	Inches in Ship.	Inches required per Rule.
<u>21</u>	<u>21</u>	<u>21</u>	if plate iron, breadth and thickness	<u>8 1/2</u>	<u>8 1/2</u>
Floors, Size of Angle Iron, and No. <u>at</u> bottom of Floor Plate	<u>3 1/4</u>	<u>2 3/4</u>	Stern-post, if bar iron, moulding and thickness	<u>8 1/2</u>	<u>8 1/2</u>
depth and thickness of Floor Plate at mid line	<u>15 1/2</u>	<u>7 1/6</u>	if plate iron, breadth and thickness	<u>6 1/2</u>	<u>6 1/2</u>
depth and thickness of Floor Plate at Bilge Keelson	<u>8</u>	<u>7 1/6</u>	Keel, if bar iron, depth and thickness	<u>6 1/2</u>	<u>6 1/2</u>
Size of Reversed Angle Iron, and No. <u>at</u> top of Floor Plate	<u>2 1/2</u>	<u>2 1/2</u>	if plate iron, breadth and thickness	<u>6 1/2</u>	<u>6 1/2</u>
Frames, Size of Angle Iron, single or double	<u>3 1/4</u>	<u>2 3/4</u>	Garboard Plates, thickness	<u>10</u>	<u>10</u>
Reversed Iron, <u>to every frame</u>	<u>2 1/2</u>	<u>2 1/2</u>	From Garboard to upper part of Bilge	<u>9 1/6</u>	<u>9 1/6</u>
Beams, Deck (N <sup>o</sup> <u>49</u> ) <u>double</u> Angle Iron	<u>2 1/4</u>	<u>2 1/4</u>	From upper part of Bilge to Sheerstrakes	<u>9 1/6</u>	<u>9 1/6</u>
or Bulb Iron with double Angle Iron on top	<u>2 1/4</u>	<u>2 1/4</u>	Sheerstrakes	<u>4 7/8</u>	<u>4 7/8</u>
depth & thickness of plate amidships	<u>6</u>	<u>5 1/2</u>	Breadth & thickness of Butt Straps to outside plating	<u>10 x 1/2</u>	<u>8 x 1/2</u>
double or single Angle Iron, on lower edge	<u>4 1/2</u>	<u>4 1/2</u>	Planksheers	<u>2 5/8</u>	<u>2 5/8</u>
average space between	<u>4 1/2</u>	<u>4 1/2</u>	Gunwale Plate or Stringer on ends of Up. Dk Beams	<u>2 5/8</u>	<u>2 5/8</u>
if wood (N <sup>o</sup> <u>24</u> ) sided & moulded	<u>2 1/4</u>	<u>2 1/4</u>	Angle Iron on ditto	<u>3 x 3</u>	<u>3 x 3</u>
Hold, or Lower Deck (N <sup>o</sup> <u>24</u> ) <u>double</u> Angle Iron or Bulb Iron with double Angle Iron on top	<u>2 1/4</u>	<u>2 1/4</u>	Waterway	<u>3 x 3</u>	<u>3 x 3</u>
depth & thickness of plate amidships	<u>6</u>	<u>5 1/2</u>	Deck	<u>3 1/2</u>	<u>3</u>
double or single Angle Iron, on lower edge	<u>4</u>	<u>3</u>	Ceiling in Hold	<u>2 1/2</u>	<u>2 1/2</u>
average space between	<u>4 1/2</u>	<u>4 1/2</u>	Ceiling betwixt Decks	<u>2 1/2</u>	<u>2 1/2</u>
if wood (N <sup>o</sup> <u>24</u> ) sided & moulded	<u>2 1/4</u>	<u>2 1/4</u>	Beam Clamps	<u>18 1/2</u>	<u>18</u>
Paddle, wood, sided and moulded or if Iron, size of Plate	<u>5 1/2</u>	<u>3</u>	Shelf	<u>18 1/2</u>	<u>18</u>
Engine <u>Keelson</u> , wood sided & moulded, iron, size of plate, if Box, give sketch & dimensions	<u>10</u>	<u>10</u>	Stringer Plates on ends of Hold or Lower Dk Beams	<u>9</u>	<u>8 1/2</u>
Side or Bilge	<u>3 1/2</u>	<u>3</u>	Ceiling between Decks	<u>9</u>	<u>8 1/2</u>
Number	<u>3</u>	<u>3</u>	Stringer or Tie Plates outside Hatchways	<u>9</u>	<u>8 1/2</u>

Transoms, material or, if none, in what manner compensated for By frames and plating  
Bulkheads, N<sup>o</sup> Four Thickness of 9.6 9.6 9.6  
Knight-heads are they free from defects? how secured to the sides of the ship with double frames & broad lines  
Hawse Timbers size of vertical angle iron and their distance apart 3 x 3 x 9.6. 30 in.

The Frames or Ribs extend in one length from Keel to Gunwale rivetted through plates with (3/4 in.) rivets, about (6 in.) apart.  
The reverse angle irons on the floors extend in one length across the middle line from top of bilge to top of bilge  
on the frames from top of bilge to Gunwale on alternate frames  
Keelson, how are the various lengths of plates or angle irons connected? with Butt straps and angle irons fastened rivetted  
Plates, Garboard, double or single rivetted to keel & upper edge, with rivets (1 ins.) diameter averaging (4 in.) from centre to centre of rivet.  
Edges from Garboards to upper part of bilge, worked carvel with a lining piece (1 in.) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets.  
Butts from Keel to turn of bilge, worked carvel with a lining piece (3/8) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 ins.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? not in the outer strake  
Edges from bilge to planksheer, worked carvel with a lining piece (1 in.) thick, double or single rivetted; rivets (3/4 in.) diameter, averaging (3 in.) from centre to centre of rivets. Do the lining pieces lap over and rivet through the lands of the strake below? no  
Butts from bilge to planksheers, worked carvel with a lining piece (1/8) thick, or clencher, double or single rivetted; rivets (3/4 in.) diameter averaging (3 ins.) from centre to centre of rivets. Breadth of laps in double rivetting (4) Breadth of laps in single rivetting (2 1/4)  
Planksheer, how secured to the plating of the sides Explain by sketch, Center Waterway  
Waterway planksheer and to the Beams if necessary.  
Side trussing breadth and thickness of plates how secured?  
Deck trussing How pair of 9 x 7/16 plate fitted diagonally, rivetted to Beams, Stringer & Tie plates  
Deck Beams, how secured to the side? Welded frames rivetted to the frames  
Hold or Lower Deck so  
Paddle how are pointers compensated? By termination of Stringers

No. of breasthooks Three crutches how are pointers compensated? By termination of Stringers  
What description of iron is used for the angle iron and plate iron in the vessel? See Humber Iron Works & Ship Building Co. Limited  
Managing Director  
IRON 437A-0049.1



3621 Inven  
the rivets in double rivetted

She has SAILS.

Complete end

She has two Life Long Boats and two others

Capstan

**DATES** of Surveys  
 held while building,  
 as per Section 17.

- Special Survey 4<sup>th</sup> Dec 53  
First Survey 10 Dec 53  
Last Survey 2<sup>nd</sup> June 54

Agnes J. W. Hine, per Superintendent

Certificate dated as above

Tonnage under Deck	332	$\frac{33}{100}$
Deck House	69	$\frac{75}{100}$
Port	26	$\frac{98}{100}$

This Vessel being over 13 depths in Length  
Mr. Davidson has submitted to have the  
Sheerstrakes doubled <sup>for  $\frac{3}{4}$  the length of Vessel</sup> and the stronger  
Plates on upper deck beams increased  
in thickness  $\frac{3}{16}$  according to Rule Sect. 16  
June 1864 J.M.C.

In what manner are the surfaces preserved from oxidation? The flat of bottom inside coated with Portland Cement  
the remainder of the plating with Paint



Mr Davidson

June 11/15 Special ..... £ 2: 9: —

Certificate (if required) .....£

10<sup>th</sup> June 1861

△

In future Mr Davidson should  
have the Committee Consult before  
he allows any Material deviation  
from the Rules — as this is a Major  
Violation of 332 & as the Compensation  
stated in his letter of the 8<sup>th</sup> Inst<sup>l</sup> May  
in my opinion be favorably accepted  
by the Committee and the Welfare  
Clapnet as recommended by Mr Davidson  
9 June 1844 MFD