

With or Without Disconnected Erections.

STEEL STEAMER.

Received at London Office **FRI FEB 20 1924**

Date of completion of report
Survey held at

Goole

State of Report is also sent on the Machinery of the Vessel

28/2/24

Port of

Hull

Date, First Survey

Jan 8/23

Last Survey

No. 34998

Feb. 20 1924

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

Single Screw

HARFERY

Rig

Schooner

TONNAGE under

613.99

CLASS + 100A.1.

FEET.

Master

Tonnage Deck...

613.99

Breadth (greatest moulded)...

32

Year of appointment

(1) As Master in service of owner of present vessel: 19

Do. between Tonnage Dk. and 3rd and 4th Dk.

613.99

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

14

Built at

Goole

Total under Upper Dk.

179.06

Transverse Number...

46

When built

1924

Launched 8th Jan 1924

Do. of Poop

22.67

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

200

By whom built

Goole S. B. & R. Co. Ltd.

Do. of Bridge House

23.07

Longitudinal Number...

1st L x D

2800

Owners

James Hargreaves & Co.

Do. of Forecastle

20.37

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

11.06 U.D.

Managers

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

Do. of Houses on Dk.

54.28

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

15.31 R.D.K.

Residence

Goole.

Do. of excess of Hatchways

35.07

Long Bridge Deck

10.95

Port belonging to

Goole.

Do. above Crown of Engine Room

908.51

Gross Tonnage

Less Crew Space

Less above Crown of Engine Room

TONNAGE FOR FEES...

Less Engine Room

Less Navigation Spaces

Register Tonnage

438.30

Destined Voyage

If Surveyed while Building, Afloat, or in Dry Dock

yes.

LENGTH on Deck as per Rule	Feet.	Inches.	BREADTH—Moulded	Feet.	Inches.	DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid
200	✓		32	0	✓	Do. do. do. do. Second Dk. Beams	11	9 1/2	one

Ship per Register, Length 200.2 breadth 32.15 depth 11.75 Moulded depth, ft. 18 ins. 3 To Bridge Dk. Round of Upper Dk. Beam, Actual 8 ins.

FRAMING.				PILLARS.			
Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship	Inches in Ship
RAISED G. D. Single Beam	7	3	38	PILLARS In 'tween Deck, size and spacing			
Angles, or [or] Bars amidships	6	3	32 1/2	" " Hold	2 3/4" diam and	2 3/4" diam	
Do. at intermdt. Bkts.	6	3	32 1/2	" " Quarter 'tween Dks.,	as per profile	as per profile	
Frames from centre to centre amidships	6	3	32 1/2	" " in Hold	" "	" "	
Do. from 1/2 length to Collision bulkhead	6	3	32 1/2	KEELSONS & STRINGERS.			
Do. in peaks	6	3	32 1/2	CENTRE LINE KEELSON, Vertical Plate (above)	20 1/2" x 56	20 1/2" x 50	
FRAME, Angles...	3 1/2	3 1/2	50	Do. Through Plate, or Intercoastal Plate			
Do. of Double Bottoms at Solid Floors	3	3	30	" Rider Plate	3 1/2 3 1/2 44	3 1/2 3 1/2 44	
Do. at intermdt. Bkts.	4	3	32	" Flat Plate Keel Angles	10 3 1/2 54	10 3 1/2 54	
depth of girder	7, 6, 5	7, 6, 5		" Horizontal Plates on Floors			
depth and thickness of Floor Plate	17			" Angles or Bulb Angles			
at mid-line for 1/2 length amidships	17			SIDE KEELSONS, Number	two	two	
Way of Engine and Boiler Spaces	17			" Angle or Bulb Angles	5 4 70	5 4 70	
mess at the ends of vessel	32			" Plate above floors, for length			
at 1/2 the half breadth, as per Rule	34			" Intercoastal Plate, for length	2R 50 BS 42	2R 32 BS 42	
ht extended at the Bilges	34			" Attached to outside Plating with Angle	3 3 40	3 3 40	
in Cell, Double Bottoms	29			BILGE KEELSON, Angles			
state if flanged (top & bottom)	not flanged	not flanged		" Intercoastal Plate for length	✓	✓	
Spacing of Solid floors	34 1/2 x 39	30 1/2 x 39		" Attached to outside Plating with Angle	✓	✓	
GIRDER, in Dbl. bottom, dpth. & thkness	3 3 35	3 3 35		SIDE STRINGERS, Number			
" Angles Top	3 3 39	3 3 39		" Angle			
" Bottom	3 3 29	3 3 29		" Intercoastal Plate, for length	✓	✓	
" to Floors	27 x 29	27 x 29		" Attached to outside plating with Angle	✓	✓	
Brackets at intermdt. frmg., wdth & thkness	27 x 29	27 x 29		Upper Deck Stringer Plate, br'dth & thickness	72" x 47	72" x 47	
SIDERS, number on each side & thickness	one 29	one 29		" " " " br'dth & thickness	72" x 54	72" x 54	
" state if flanged (top and bottom)	not flanged	not flanged		" " " " Brak (in way of Bridge)	5 x 5 x 47	5 x 5 x 47	
" Angles (top and bottom)	3 3 32	3 3 29		" " " " Angle (clear of Bridge)	incl. 8 1/2	incl. 8 1/2	
" to Floors	2 1/2 2 1/2 29	2 1/2 2 1/2 29		" Deck * Iron or Steel, for full lng.	30	30	
PLATE, depth (exclusive of flange)	28 x 33	28 x 33		" Thickness (clear of Bridge)	30	30	
" and thickness	3 3 35	3 3 35		" " (in way of Bridge)	30	30	
" Angle to Outside Plating	3 3 29	3 3 29		Wood Deck, Material & thickness	not fitted	not fitted	
" Floors	27 x 29	27 x 29		Deck Stringer Plate, br'dth & thickness	68" x 40	35" x 40	
Brackets at intermdt. frmg., wdth & thkness	27 x 29	27 x 29		" Angles on ditto, No.	3 1/2 x 3 1/2 x 40	3 1/2 x 3 1/2 x 40	
Height of Outside Brackets above at bilge	3' 7"	3' 7"		" Tie Plates outside Hatchways	34	34	
BOTTOM PLATING, breadth and thickness of Middle Line Strake	40 x 45	40 x 34 1/2 31		" Deck * Iron or Steel, for full lng.	30	30	
" in Engine and Boiler space				" Wood Deck, Material & thickness	not fitted	not fitted	
" Remainder in Holds	45	38 1/2 29		Third Deck Stringer Plate, br'dth & thickness			
Upper Deck, Single Angle, Bulb	5 1/2 3 34	5 1/2 3 34		" Angles on ditto, No.	✓	✓	
" Angle, Plate, Tee Bulb, or Channel	6 1/2 3 40	6 1/2 3 40		" Tie Plates, outside Hatchways	✓	✓	
In way of Long Bridge	5 3 42	5 3 42		" Deck * Material and thickness			
" 1/2 beam	4 3 32	4 3 32		Fourth and Fifth Deck Stringer Plate, breadth & thickness			
Spacing	22 1/2	22 1/2		" " Angles on ditto, No.	✓	✓	
Second Deck, Single Angle, Bulb	5 1/2 3 30	5 1/2 3 30		" " Tie Plates outside Hatchways	✓	✓	
" Angle, Plate, Tee Bulb, or Channel	22 1/2	22 1/2		" " Deck, Material & thickness			
Third and Fourth Deck, Single Angle				Poop Deck Stringer Plate, breadth & thickness			
" Bulb Angle, Plate, Tee Bulb, or Channel				" Angle on ditto	✓	✓	
" Angles on upper edge				" Tie Plates	✓	✓	
Spacing				" Deck, Material and thickness			
Poop Deck, Angle, Bulb Angle, Plate,				Bridge Deck Stringer Plate, br'dth & thickness	32 x 28	32 x 28	
" Tee Bulb, or Channel				" Angle on ditto	3 x 3 x 28	3 x 3 x 28	
" Angles on upper edge				" Tie Plates	2 1/2 x 28	7 1/2 x 28	
Spacing				" Deck, Material and thickness	2 3/4 p.p.	2 3/4 p.p.	
Bridge Deck, Angle, Bulb Angle, Plate,	6 3 36	6 3 36		Forecastle Deck Stringer Plate, br'dth & th'kness	18 x 28	18 x 28	
" Tee Bulb, or Channel				" Angle on ditto	3 x 3 x 28	3 x 3 x 28	
" Angles on upper edge				" Tie Plates	36 x 28	7 x 28	
Spacing	45	45		" Deck, Material and thickness	2 3/4 p.p.	2 3/4 p.p.	
BEAMS, Forecastle Deck, Angle, Bulb Angle,	6 1/2 3 42	6 1/2 3 42					
" Plate, Tee Bulb, or Channel							
" Angles on upper edge							
Spacing	45	45					

W443-0109 1/2

[illegible]

EQUIPMENT No. <i>10094</i>				LETTER <i>L</i>				ANCHORS.				TONNAGE U.D.K. OR PLATING No. FOR TRAWLERS			
Number of Certificate.	Anchor.	WEIGHT EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE				WEIGHT REQUIRED BY TABLE 31.			
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	
<i>14830</i>	1st Bower ...	<i>21</i>	<i>3</i>	<i>0</i>	<i>stockless</i>			<i>22.2</i>				<i>21</i>	<i>1</i>	<i>0</i>	<i>stockless</i>
<i>14829</i>	2nd " ...	<i>21</i>	<i>0</i>	<i>7</i>	"			<i>21.7</i>				<i>21</i>	<i>1</i>	<i>0</i>	"
<i>14131</i>	3rd " ...	<i>18</i>	<i>0</i>	<i>14</i>	"			<i>19.1</i>				<i>18</i>	<i>0</i>	<i>0</i>	"
	4th " ...														
	Collective weight.	<i>60</i>	<i>3</i>	<i>21</i>								<i>60</i>	<i>2</i>	<i>0</i>	
<i>14905</i>	Stream	<i>5</i>	<i>3</i>	<i>0</i>	<i>1</i>	<i>1</i>	<i>31</i>	<i>8</i>				<i>5</i>	<i>3</i>	<i>0</i>	<i>Common</i>
	Kedge.....														

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

1st Bower *14c 1g 16lbs, F.R. Antwerp 393 23/11/21*
2nd " *13c 1g 0lbs, F.R. Antwerp 403 30/11/21*
3rd " *10c 2g 1lb, F.R. Antwerp 363 8/11/21.*
4th "

CHAIN CABLES.

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and Size per Table 31.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	HAWSERS AND WARPS.			
												Length and Size supplied.		Breaking Test of Steel Wire Towline.	
	Length.	Diam.	Stat.	Break.	Supplied.	Per Rule.	Length.	Diam.				Length.	Cir.	Length.	Cir.
<i>26057</i>	<i>210</i>	<i>1 3/8</i>	<i>34</i>	<i>51</i>	<i>204-2-21</i>	<i>203-0-0</i>	<i>210</i>	<i>1 1/2</i>	<i>Stud</i>	<i>Hendrick & Motley</i>	<i>Cardiff 8/3/23 Jones</i>	<i>TOWLINE</i>	<i>90</i>	<i>3 1/2</i>	<i>18</i>
												<i>HAWSERS & WARPS</i>	<i>90</i>	<i>6"</i>	<i>Hemp</i>
													<i>90</i>	<i>5"</i>	<i>"</i>
<i>Stream</i>	<i>60</i>	<i>3 1/4</i>	<i>22</i>				<i>60</i>	<i>3 1/4</i>							

Boats *two* Steering Gear, Steam *yes efficient* Steering Gear, Hand *Spare tiller*
Pumps, Number *one* Diameter of Barrel *4 1/2* State whether they are in efficient working order *yes*
Windlass is *steam & hand efficient* Capstan *yes*

Engine Room Skylights.—How constructed? *plated angles* What arrangements for deadlights in bad weather? *Bulls eyes*
Coal Bunker Openings.—How constructed? *plated angles* How are lids secured? *hinged plates* Height above deck? *7'-9"*

Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. *40" 3" each side* Scuppers, &c. *40" 3" each side* Scuppers, &c. *40" 3" each side* Scuppers, &c. *40" 3" each side*

Ceiling in Holds, thickness and material *none fitted* Cargo Battens, thickness and material *none fitted*
Cargo Hatchways.—How formed? *plates & angles* Hatches, if strong and efficient? *yes*

State size No. 1 Hatch (Forward) *36' 6" x 20* No. 2 Hatch *41' 3" x 20* No. 3 Hatch *—* No. 4 Hatch *—*

Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch *No. 1. 7 beam No. 2. 7 beam no fore afters*
No. of Breasthooks *two* No. of Crutches *deep floors*

Bulwarks, height above deck at description *4 ft 6 in 3 ft 6 in 3 ft 6 in 3 ft 6 in* Main Rail, material and size *6 x 3 1/2 40 B.A.*

The foregoing is a correct description. Surveyor's Signature *Wm. Balfour*
Builder's Signature (here only) *Wm. Balfour* Surveyor to Lloyd's Register of Shipping.

Correspondence.—State dates and initials of letters received from the Builder, and dates and initials of letters received from the Surveyor, should be made in any correspondence connected with the case.

M 14/12/22 M 21/12/22 M 27/12/22 M 4/1/23 M 2/3/23 M 14/3/23 M 12/4/23 M 11/5/23 25/5/23

Workmanship. Are the butts of plating planed or otherwise fitted? *planed and fitted*

Is the riveted work properly closed? *yes*

Are the liners between the frames and plates solid single pieces? *yes* Do the holes for riveting plate to frames, butt straps, or plate

to plate, &c., conform well to each other? *yes* Are the rivet holes well and sufficiently countersunk in the plate and punched

from the faying surfaces? *yes* Do any rivets break into or through the seams or butts of the plating? *a few*

Are the butts of Plating, Stringers, &c., properly shifted and strapped? *yes*

Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? *yes* State results of tests *satisfactory*

Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? *yes* State results of tests *satisfactory*

General Remarks (State quality of workmanship, &c.) *Workmanship good*

This vessel has been built in accordance with the approved plans, the

Secretary's letters of the above dates and otherwise in conformity with the Rules

for the class contemplated.

The approved plans of midship section, profile and deck, pumping,

stern frame & rudder, strengthening of bottom forward

2 forging certificates enclosed and steel test notes.

GENERAL REMARKS—(continued).

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop \rightarrow ft., R.Q.D. $116\frac{75}{100}$ ft., Bridge $11\frac{25}{100}$ ft., Forecastle 26 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated *Short bridge in front of R.Q.D.*

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 it should appear in the Register Book) *one deck steel*
Official No. ; Signal Letters
How are the surfaces preserved from oxidation? Inside *paint + cement* State if Machinery is fitted aft *yes* Outside *paint*

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

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	—	—	Fore peak tank,	$21\frac{4}{10}$	58
Double bottom, under Engines and Boilers,	—	—	After peak tank,	$9\frac{10}{10}$	36
Double bottom, if under Engines only,	—	—	Deep tank, aft,	—	—
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	—	—
Double bottom, forward,	$122\frac{1}{10}$	245	Other tanks, if fitted,	—	—
	Total capacity of double bottom	245	(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. *2779*

Date

22/12/22

No. *252* in builder's yard.

DATES of Surveys held while building

draft from Builders draught scale to center line 13-53/4
1923:—Jan 8. 18. 24. 31. Feb. 7. 13. 22, 28. Mar. 1. 9. 16. 26.
Apr. 5. 13. 18. 26. May 10. Jun 1. 6. Nov 26. Dec 5. 17. 20. 21. 28.
1924: Jan 2. 4. 9. Feb 1. 15. 19. 20.

Surveyor's Signature

Wm. Balfour

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Total No. of Visits *32*