

STEEL STEAMER or MOTORSHIP.

Received at London Office 12 JUL 1930

State if Report has been sent on the Freeboard of the Vessel. Yes

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

Date of completion of report

2-7-30

Port of

NEWCASTLE-ON-TYNE

No.

85947

Survey held at

South Shields

Date First Survey

25 Nov / 29

Last Survey

2-July

19 30.

On the

(State if Machinery fitted Aft and
if Single, Twin or Triple Screw)

Single Screw Steamer "Harpagus"

Machinery Amidships

State Type

(Full Scantling, Complete Superstructure
with or without Tonnage Openings)

Full Scantling

State Type of Erections

Forecastle

TONNAGE under
Tonnage Deck...)

4307.89

CLASS +100A1

State if with freeboard
as condition of Class

No

Built at

South Shields

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 394.0

Breadth (greatest moulded)

B 54.04

Depth, at middle of length from top of keel to top
of beam at side of uppermost continuous
deck. See Sec. 3 (1c)

D 27.17

1st Longitudinal Number (L x D)

= 10705

2nd Numeral L x (B + D)

= 31996

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

23.75

Proportions—Depth to Length—Uppermost con-
tinuous deck to top of keel

14.5

Do. Long Bridge to top
of keel

11.04

Draught Moulded

23-4

Launched 15 May 1930 Yard No. 502

Builders John Readhead & Sons Ltd

Owners National Steamships Co Ltd

Managers J & C Harrison Ltd

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

Residence

Port of Registry

London

If surveyed while building, afloat, & in dry dock

Yes.

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	28		Bracket Floors, Frame	6 3 1/2 .35	5 1/2 x 3 1/2 x .34
" " from 3/4 length to Collision bulkhead	28		" " Reversed Frame	5 1/2 3 .30	5 x 3 x .34
" " in peaks	26		" " Vertical Struts	9 3 1/2 3 1/2 .38	
FRAMING.			Centre Girder, depth and thickness amidships	41 5/8 .50	
Frame Amidships, Angle E	12 3 1/2 .48 NBS		" " top Angles	5 5 .50	
" " Extends up to	Upper Deck		" " bottom Angles	6 6 .54	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	One .38	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	38 .48	33
Depth of Framing Girder	12		" " Vertical Angle to Tank side	6 6 .40	
Frames in Uppermost Continuous 'tween Decks, Angle E	6 3 1/2 .34	5 x 3 1/2 x .34	" " Bracket abaft 1/4 len. from stem	3 1/2 3 1/2 .40	
" " Second 'tween Decks, Angle, E or C			" " Vertical Angle to Tank side	6 6 .40	
" " Third " " "			" " Bracket forward 1/4 len. from stem	3 1/2 3 1/2 .40	and as approved
Framing in Peaks, Angle or C	7 8 .46 NBS		" " Gussets, spacing and scantling abaft 1/4 len. from stem	6 6 .40	
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships	7/8 6 1/4		" " Gussets, spacing and scantling forward 1/4 len. from stem	6 6 .40	
State if Frame Joggled	Yes		Tank Side Brackets, height above base line at toe of Frame and thickness	59 1/2 .44	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	12 3 1/2 .56 NBS 7 3 1/2 .56 13" Guide Four side stringers Three Girders 4-0 apart.		INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FOR- WARD. State Particulars			Breadth and thickness of Middle Line Strake	77 .48	
SINGLE BOTTOM.			Thickness of remainder in Holds	41	
Floors, Depth and thickness at mid-line in Holds			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?	Yes	
Height of Brackets at side above base line at toe of frame			BEAMS.		
Middle Line Keelson, on Floors, Angles, E or C			Uppermost Continuous Deck, amidships	11 3 1/2 .40 NBS	
" " Through Plate or Intercostal Plate			" " in Wells, Angle E		
" " Foundation Plate on Floors			" " in way of Bridge, Angle	11 3 1/2 .40 NBS	
" " Flat Plate Keel Angles			Spacing	28	
Side Keelsons, No. each side			Second Deck, amidships, Angle, E or C		
" " thickness of Intercostal Plate			Spacing		
" " Angles			Third Deck, amidships, Angle, E or C		
DOUBLE BOTTOM.			Spacing		
Solid Floors, thickness and spacing	38 .56		Fourth Deck, amidships, Angle, E or C		
" " Are Frame and Reversed Frame joggled?	Yes		Spacing		
Bracket Floors, breadth and thickness at middle line	31 .38		Poop Deck, Angle E	7 1/2 3 .36	
" " breadth and thickness at margin plate	49 .38		Spacing	26 1/2 28	
			Bridge Deck, Angle E	9 3 1/2 .40 NBS	
			Spacing	28	
			Forecastle Deck, Angle E	8 3 .36 NBS	
			Spacing	28 1/2 26	

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.
Centre Line Bulkhead.	-	-	-			
in 'tween Decks, Size and Spacing.....	-	-	-			
" " " " "	-	-	-			
in Holds " "	-	-	-			
" " " " "	-	-	-			
Centre Line Bulkhead.	11	3 1/2	4 4	ENDS.		
Stiffeners and Spacing.....		56				
Plating, thickness of		38		30		
STRINGERS AND DECKS.						
Uppermost Continuous Deck.						
Stringer Plate, breadth and thickness in Wells		55 1/2	58	74		
" " " " in way of Bridge		55 1/2	45	38		
" Angle in Wells	6	6	76			
Thickness of Plating abreast Deck openings in way of Wells		79		66		
Thickness of Plating abreast Deck openings in way of Bridge		37		34		
Thickness of Plating within line of openings...		34				
If Sheathed, material and thickness		No				
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 Wells						
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		35	40	34		
Plating, Sheathing, material and thickness ...		34		26		
Bridge Deck.						
Stringer Plate, breadth and thickness.....		55	64	54		
Plating, Sheathing, material and thickness ...		55		46		
Forecastle Deck.						
Stringer Plate, breadth and thickness.....		34	41	34		
Plating, Sheathing, material and thickness ...		37		34		

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>No</i>			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.								
FLAT PLATE KEEL	<i>61</i>	<i>.73</i>	<i>.66</i>	<i>.66</i>		<i>Double</i>	<i>1</i>	<i>4</i>	<i>4</i>	<i>1</i>	<i>4</i>	<i>Lapped</i>
„ DBLG. (if any)	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
BOTTOM PLATING, No. of Strakes	<i>70</i>	<i>.59</i>	<i>.56</i>	<i>.48</i>	<i>Plating</i>	<i>Double</i>	<i>7/8</i>	<i>3 1/2</i>	<i>3</i>	<i>7/8</i>	<i>3 1/2</i>	<i>"</i>
BILGE PLATING, No. of Strakes	<i>48</i>	<i>.59</i>	<i>.60</i>	<i>.48</i>	<i>increased</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
SIDE PLATING, No. of Strakes	<i>68</i>	<i>.59</i>	<i>.54</i>	<i>.45</i>	<i>Forward</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
UPPER DECK, Sheer-strake in Wells.....	<i>66</i>	<i>.70</i>	<i>.54</i>	<i>.46</i>	<i>as per sketch.</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
UPPER DECK, Sheer-strake in Bridge ...	<i>66</i>	<i>.59</i>				<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
STRAKE BELOW Sheer-strake in Wells.....	<i>68</i>	<i>.62</i>	<i>.54</i>	<i>.45</i>		<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
STRAKE BELOW Sheer-strake in Bridge ...	<i>68</i>	<i>.59</i>				<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>	<i>"</i>
UPPER SIDE PLATING				<i>.38</i>		<i>Single</i>	<i>3/4</i>	<i>3</i>	<i>1</i>	<i>3/4</i>	<i>2 5/8</i>	<i>"</i>
BRIDGE SIDE PLATING ...	<i>52 1/2</i>	<i>.60</i>				<i>Double</i>	<i>7/8</i>	<i>3 1/2</i>	<i>3</i>	<i>7/8</i>	<i>3 1/2</i>	<i>"</i>
FORECASTLE SIDE PLATING			<i>.40</i>			<i>Single</i>	<i>3/4</i>	<i>3</i>	<i>1</i>	<i>3/4</i>	<i>2 5/8</i>	<i>"</i>

WATERTIGHT BULKHEADS.

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

Extending to Upper Deck (Sec. 3 c)

Deck next below

As per Rule

STIFFENERS.

	Plating Thickness.	VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks					
" " Second "					
" " Third "					
" " Holds	34	26	5 11 x 3 1/2 x 52	30	
COLLISION " (in Hold)	50	26	10 1/2 x 3 1/2 x 46	24	1 1/2 x 2 1/2 x 4
AFTER PEAK "	48	30	5 1/2 x 3 x 34	24	1 1/2 x 2 1/2 x 4

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	"	10 1/2 x 7 1/2	Raymond	
{ Rudder "	"	9 x 7 1/2	Raymond	
RUDDER—A x D.....		3 7 7		
Speed of Vessel		Under 10 knots		
RUDDER mainpiece at head ...		9	Raymond	
" " heel ...		6 3/4	Raymond	
" " how constructed		Built		
" " double or single plate		Single		
" " coupling, vertical or horizontal.....		Horizontal		

STEEL.

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

Consell. South Durham. Cargo Heat. Druman Long. Frodingham & Appleby, Clark & Co

Has the Steel been tested as required by the Rules?

Yes

Lloyd's Register Foundation

EQUIPMENT No. 34167										LETTER Y	ANCHORS.				
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
63153	1st Bower	60	0	21	-	-	-	48	10	0	0	60	Stocklen	Lyles	Lips 15/1/30 Dupdale
63152	2nd "	60	0	19	-	-	-	48	10	0	0	60	"	"	Lips 14/1/30 Dupdale
61399	3rd "	50	3	17	-	-	-	42	18	1	21	50 1/2	"	"	Lips 9/8/28 Dupdale
	Collective weight.	171	1	1								170-2-0		Bloome	
24522	Stream	16	3	7	4	1	7	18	2	3	7	16-1-0	Rodgers	Pa Hills	L.W. 3-4/30 Green
HAWSERS AND WARPS.															

CHAIN CABLES.										HAWERS AND WARPS.								
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.			Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.	
	Length.	Diam.	Statutory.	Breaking.	Supplied.	Per Rule.	Length.	Diam.	Fathoms.					Ins.	Fathoms.		Ins.	
14345	Fathoms.	Incs.	Tons.	Tons.	Owts.	qrs.	lbs.	Owts.		Steel	Bloome Pa Hills	LW 3-4-30 Green	TOWLINE...	Fathoms.	Ins.	Tons.	Fathoms.	Ins.
	270	2 3/16	86 1/2	120 1/2	658-0-0		645-3-0		270	2 3/16				120	4 3/4	47	120	4 3/4
													HAWERS & WARPS	2-90	2 3/4	15 1/2	2-90	2 3/4
													"	2-90	3	18.6	2-90	2 1/2
Iron Stream Chain or Steel Wire		Cir.									Californ by Horn Haggie		"					
	90	4 3/4		47					90	4 3/4								

Steering Gear, Steam *Donkin 10+10* Steering Gear, Hand *✓*
Boats *2 Life 27-0 x 8-3 x 3-5* Steering Chains, Size and Test *1 5/16 20-12-2-0* Windlass *Immerman Walke 9 1/2 x 12 1/2*
Ceiling in Holds, thickness and material *2 1/2 W.W.* Cargo Battens, thickness, material and spacing *2" 9"*
Cargo Hatchways, (Upper Deck) *Steel Plates & Angles* Thickness of Hatches *3"*
Size of No. 1 Hatchway (Forward) *32-8 x 21-11 1/2* No. 2 *32-8 x 21-11 1/2* No. 3 *23-4 x 21-11 1/2* No. 4 *32-8 x 21-11 1/2* No. 5 *32-8 x 21-11 1/2* No. 6
Number of Shifting Beams and/or Fore and Afters *1-5 2-5 3-4 4-5 5-5* For JOHN READHEAD & SONS, LTD.

Builder's Signature

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel an oil tanker, is fitted for carrying oil as cargo *✓* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built in accordance with the approved plans, the Committees instructions and the Lloyds Rules. The workmanship & materials are good and to my satisfaction. All double bottom tanks & peaks have been tested under pressure to rule requirements. All bulkheads (47) weather decks & tunnel have been box tested. The assigned freshboards have been marked on the vessel sides, numbered & cut in. The approved plans & framing reports are attached.

The amount of Entry Fee £ *8* : : Fees applied for, *11 JUL 1930*
Special Survey Fee £ *309* : *9* : 0 Received by me, *15-7-30*
Travelling Expenses, if any £ *8* : *6* : *8*
State whether the Vessel has been built under Special Survey *✓* Signature *H. C. Ireland*
Certificate to be sent to *Newcastle-on-Tyne* Date of issue *18/7/30*
Surveyor to Lloyd's Register of Shipping.

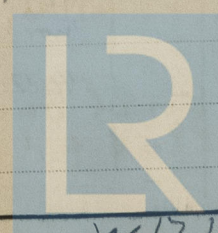
Committee's Minute

Character assigned

FRI. 18 JUL 1930

+100A1

Write to Lloyd's as per, + Lmb 7.30 L's



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Lloyd's Register

W1318-2175/21210

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.)

The approved plans (8 in number) are enclosed
Plans of the Vessel (as built) (2 in number) are also enclosed

Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	35-3-22 KH	7033	15/10/29
	2nd "	36-0-5 MB	6997	27/9/29
	3rd "	30-3-27 KH	5539	28/6/28

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 36.1 ft., R.Q.D. ✓ ft., Bridge 24.5 ft., Forecastle 31.8 ft.
(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) One Steel

Official No. 161451 ; Signal Letters Is bottom of Vessel coated with cement Jn if not give particulars of composition

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length.		Water Capacity.	Where Fitted.	*Length.		Water Capacity.
	Feet.	Tons.			Feet.	Tons.	
Double bottom, aft,	126	375		Fore peak tank,	20.0	102	
Double bottom, under Engines and Boilers,				After peak tank,	26.7	220	
Double bottom, if under Engines only,	25.6	120		Deep tank, aft,			
Double bottom, if under Boilers only,				Deep tank, forward,			
Double bottom, forward,	176.8	665		Other tanks, if fitted,			
	Total capacity of double bottom		1160	(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. 5387

Date 11.11.29

Dates of Surveys held while building

1929

Nov. 25. Dec. 10. 11. 17. 23.

1930

Jan. 10. 13. 15. 29. Feb. 6. 11. 12. 18. 28. Mar. 10. 17. 27. Apr. 2. 4. 9. 14. 17. 24. 28. May 1. 5. 7. 12. 15. 19. 23. 29. June 4. 12. 13. 19. July 2.

Total No. of Visits 37