

## STEEL STEAMER or MOTORSHIP.

Received at London Office 9 JAN 1928

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

6<sup>th</sup> January 1928

Port of

Newcastle-on-Tyne

No. 82224

Survey held at

South Shields

Date First Survey

9<sup>th</sup> May 1927

Last Survey

2<sup>nd</sup> January 1928

On the

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

Single Screw Steamer "KIRNWOOD"

Machinery amidships

State Type

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

Full Scantling

State Type of Erections

Freeville

TONNAGE under Tonnage Deck

3449.74

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 366.0

Breadth (greatest moulded)

B 52.31

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

D 24.25

1st Longitudinal Number (L x D)

= 8875

2nd Numeral L x (B + D)

= 28021

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

21-0 1/2

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

15.09

Do. Long Bridge to top of keel

11.34

Draught Moulded

21-4 1/2

Launched 27-10-27 Yard No. 487

Builders John Readhead &amp; Sons Ltd

Owners Joseph Constantine Steamship Lines Ltd

Managers

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

Residence Middlesbrough

Port of Registry Middlesbrough

If surveyed while building, afloat, or in dry dock

Building, afloat &amp; in Dry Dock

## 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.
AMES, Spacing amidships	28		Bracket Floors, Frame	6 3 1/2 38 5 1/2 5 1/2 36	
" " from 1/2 length to Collision bulkhead	28		" " Reversed Frame	5 1/2 3 30 5 3 36	
" " in peaks	26		" " Vertical Struts	9 3 1/2 3 1/2 38	
DE FRAMING.			Centre Girder, depth and thickness amidships	38 1/2 48	
Frame Amidships, Angle, E or C	11 3 1/2 42		" " top Angles	3 3 45	
" " Extends up to	Upper Deck		" " bottom Angles	4 4 46	
Reversed Frame Amidships, Angle			Side Girders, No. each side and thickness	One 38	
" " Extends up to			Margin Plate depth (excl. of flange) and thickness	34 45	
Depth of Framing Girder	11		" " Vertical Angle to Tank side	3 1/2 3 1/2 36	
Frames in Uppermost Continuous 'tween Decks, Angle, C or E			Bracket abaft 1/2 len. from stem	6 6 37	Half len. on Plan Water
" " Second 'tween Decks, Angle, C or E			" " Vertical Angle to Tank side	6 6 37	
" " Third " " "			Bracket forward 1/2 len. from stem		
Framing in Peaks, Angle, C or E	7 3 36		Gussets, spacing and scantling abaft 1/2 len. from stem	- - -	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 6 1/2		" " Gussets, spacing and scantling forward 1/2 len. from stem	- - -	
State if Frame Joggled	Yes		Tank Side Brackets, height above base line at toe of Frame and thickness	55 1/2 42	
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars	11 3 1/2 48 13" Girders		INNER BOTTOM PLATING.		
STRENGTHENING OF BOTTOM FORWARD. State Particulars	6 1/2 3 1/2 48 1/2 Two Half height girders Main Girders continued		Breadth and thickness of Middle Line Strake	77 45	
ANGLE 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, C or E			Uppermost Continuous Deck, amidships in Wells, Angle, E or C	10 1/2 3 1/2 50	
" " Through Plate or Intercoastal Plate			" " in way of Bridge, Angle, E or C	10 3 1/2 46	
" " Foundation Plate on Floors			Spacing	28	
" " Flat Plate Keel Angles			Second Deck, amidships, Angle, C or E		
Side Keelsons, No. each side			Spacing		
" " thickness of Intercoastal Plate			Third Deck, amidships, Angle, C or E		
" " Angles			Spacing		
DOUBLE BOTTOM.			Fourth Deck, amidships, Angle, C or E		
Solid Floors, thickness and spacing	38 84		Spacing		
" " Are Frame and Reversed Frame joggled?	Yes		Poop Deck, Angle, E or C	6 1/2 3 38	
Bracket Floors, breadth and thickness at middle line	29 38		Spacing	26 28	
" " breadth and thickness at margin plate	50 38		Bridge Deck, Angle, E or C	8 1/2 3 1/2 51	
			Spacing	28	
			Forecastle Deck, Angle, E or C	8 3 40	
			Spacing	28 26	



# 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</b> , No. of Rows.....		One			Stringer Plate, breadth and thickness in way of Bridge .....				
"    in 'tween Decks, Size and Spacing.....		23	56		Thickness of Plating abreast Deck openings in way of Wells .....				
"    "    "    "    "    "					Thickness of Plating abreast Deck openings in way of Bridge .....				
"    in Holds    "    "					Thickness of Plating within line of openings...				
"    "    "    "    "    "					If Sheathed, material and thickness .....				
<b>Centre Line Bulkhead.</b>					<b>Third Deck.</b>				
Stiffeners and Spacing.....	8x3	38	56	4	Stringer Plate, breadth and thickness.....				
Plating, thickness of .....	1/4	32	46	56	If Plated, state thickness.....				
<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		53	82	See deck plan	If Plated, state thickness .....				
"    "    "    "    in way of Bridge		53	37		<b>Poop Deck.</b>				
"    Angle in Wells .....	6	6	76		Stringer Plate, breadth and thickness .....	33	34		
Thickness of Plating abreast Deck openings in way of Wells .....		66			Plating, Sheathing, material and thickness ...	30x	28		
Thickness of Plating abreast Deck openings in way of Bridge .....		33			<b>Bridge Deck.</b>				
Thickness of Plating within line of openings...		32			Stringer Plate, breadth and thickness.....	52 1/2	52		
If Sheathed, material and thickness .....		-			Plating, Sheathing, material and thickness ...	40			
<b>Second Deck.</b>					<b>Forecastle Deck.</b>				
Stringer Plate, breadth and thickness in Wells...		-			Stringer Plate, breadth and thickness.....	33	34		
					Plating, Sheathing, material and thickness ...	32			

## SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.		BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?		No. of Rows of Rivets.		RIVETS.	
	Breadth.	Thickness.	Thickness.	Thickness.		SINGLE OR DOUBLE.	Spacing cr. to cr.	Diam.	Spacing cr. to cr.	STRAPPED OR LAPPED.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.	Inches.	Inches.	
FLAT PLATE KEEL .....	47 1/2	.67	.61	.61		Double	1	4	Triple	7/8	3 1/8 Lapped
"    DBLG. (if any)											
BOTTOM PLATING, No. of Strakes 4 rows.....	70	.57	.50	.48		Double	7/8	3 1/2	Triple	7/8	3 1/8 Lapped
BILGE PLATING, No. of Strakes 8 rows.....	55	.57	.50	.48		"	"	"	"	"	"
SIDE PLATING, No. of Strakes 14 rows.....	74	.56	.44	.44		"	"	"	"	"	"
UPPER DECK, Sheer-strake in Wells.....	72	.68	.44	.44		Double (at break)	1	4	Quad	1	4
UPPER DECK, Sheer-strake in Bridge ...	72	.56	-	-		Double	7/8	3 1/2	Triple	7/8	3 1/2
STRAKE BELOW Sheer-strake in Wells.....	74	.68	.44	.44		"	"	"	"	"	"
STRAKE BELOW Sheer-strake in Bridge ...	74	.56				"	"	"	"	"	"
POOP SIDE PLATING .....				.37		Single	3/4	2 1/2	Single	3/4	2 5/8
BRIDGE SIDE PLATING ...	50	.58				Double	7/8	3 1/2	Triple	7/8	3 1/2
FORECASTLE SIDE PLATING	40	.58				Single	3/4	2 1/2	Single	3/4	2 5/8

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—		Six				
Extending to Upper Deck (Sec. 3 c).....						
,, Deck next below.....						
As per Rule.....		Six				
		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks						
,,	,, Second	,,				
,,	,, Third	,,				
,,	,, Holds .....	34-28	10x3½	46	34½	
COLLISION	,, (in Hold) .....	36x26	9x3½	46	24	HT Flat
AFTER PEAK	,, .....	36x26	6x3x	36	24	

## FORGINGS and CASTINGS.

	Castings or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar</b> .....				
<b>STEM</b> .....		8 3/4 x 2 1/4		
<b>STERN FRAME</b> { Propeller Post .....		9 3/4 x 6 1/2		
{ Rudder    "    .....		8 3/4 x 6 1/2		
<b>RUDDER—A x D</b> .....		370 x 11		
<b>Speed of Vessel</b> .....		Indic 10 Knots		
<b>RUDDER</b> mainpiece at head ...		9		
"    "    heel ...		6 3/4		
"    how constructed .....		Fused & 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) *Siemens Martin Open Hearth*  
*South Durham, Consett, Doncaster, Long Cargo Fleet, Boleham, Vauxhall*

Has the Steel been tested as required by the Rules? *Yes*



EQUIPMENT No. 30149										LETTER X	ANCHORS.		
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.			
30301	1st Bower ...	56	2	7	—	—	—	46	7	3	7	Per Byers	Std 6/9/27 Butler
30337	2nd „ ...	56	1	0	—	—	—	46	3	0	14	—	Std 17/9/27 —
20344	3rd „ ...	47	3	7	—	—	—	41	0	3	21	—	Std 20/9/27 —
	Collective weight.	160	2	14	—	—	—	—	—	—	—	—	—
	Stream „ ...	15	1	0	—	—	—	16.7	—	—	—	Kendrick	Std 20/7/27 Jones

CHAIN CABLES.										HAWSERS 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.					Length.	Ins.		Tons.	Length.	Ins.
30931	270	2½	81½	113¾	6140-0	608-2-14	270	2½	Slad Kendrick	Cdf 3/6/27 Jones		TOWLINE ...	120	4½	39	120	4½	
Less Stream Chain or Steel Wire	90	Or.	39					Or.	Califud by Hord Waffie			HAWSERS & WARPS	2-90	7		2-90	7	
		4½						4½					2-90	7				

Steering Gear, Steam  $9 \times 8 \frac{1}{2}$  Steering Gear, Hand  $6 \frac{1}{2}$

Boats  $26-6 \times 8-2 \times 3-3$  Steering Chains, Size and Test  $1 \frac{5}{16} 20-12-2-0$  Windlass *Clake Chapman*

$18-0 \times 5-8 \times 2-3$

Ceiling in Holds, thickness and material  $2 \frac{1}{2}$  W.W. Cargo Battens, thickness, material and spacing  $6 \times 2 \frac{1}{2}$  W.W. 9" apart

Cargo Hatchways.—(Upper Deck) *Steel plate & angles* Thickness of Hatches  $3"$

Size of No. 1 Hatchway (Forward)  $28 \times 20$  No. 2  $28 \times 20$  No. 3  $18-8 \times 16-6$  No. 4  $30-4 \times 20$  No. 5  $28 \times 20$  No. 6

Number of Shifting Beams and/or Fore and Afters  $1-4 \quad 2-4 \quad 3-3 \quad 4-5 \quad 5-4$

FOR JOHN REARHEAD & SONS, LIMITED.  
Builder's Signature *John H. Rearhead*

GENERAL DECLARATION *This vessel has been built in accordance with the approved plans, the Committee's instructions & the Society's Rules.*

*The workmanship & materials are good & to my satisfaction*

*All tanks for water ballast have been tested under pressure to rule height. all watertight bulkheads, weather decks & tunnel have been*

*holed tested.*

*The assigned freeboard has been marked on the vessel's*

*sides, verified cut in & painted.*

*The approved plans & fittings reports are attached*

*Sister Vessel Load Number 484 S/P Hazelwood*  
*True Report No 81733*

The amount of Entry Fee ..... £  $7 : 0 : 0$  Fees applied for, **7 JAN 1928**

Special Survey Fee.... £  $262 : 1 : 0$  Received by me, *11.1.28*

Travelling Expenses, if any £  $8 : 5 : 0$  *Freeboard*

State whether the Vessel has been built under Special Survey *Yes* Signature *H. C. J. Ireland*

*H+M* Certificate to be sent to *Nure* Date of issue  $13/1/28$  Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 13 JAN 1928**

Character assigned  $+ 100 A1$

*Lloyd's A & C.P. + L.M.C. 1:28*  
*FX*  
*Cr.*

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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.)

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

1st Bower	32-2-9	YH B	3208	23-7-27
2nd "	31-6-17	KH	4851	6-9-27
3rd "	29-0-9	KH	4832	6-9-27

**PARTICULARS FOR RECORD in the REGISTER BOOK.**—Length of Poop 29.3 ft., R.Q.D. — ft., Bridge 225.6 ft., Forecastle 33.3 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated No

No. and Material of Decks (this information is to be given as it should appear in the Register Book) One Steel

Official No. 147794 ; Signal Letters — Is bottom of Vessel coated with cement Yes if not give particulars of composition.

**PARTICULARS OF WATER BALLAST.—**

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	119	290	Fore peak tank,	—	—
Double bottom, under Engines and Boilers,	—	—	After peak tank,	23-10	155
Double bottom, if under Engines only,	25-8	100	Deep tank, aft,	—	—
Double bottom, if under Boilers only,	—	—	Deep tank, forward,	—	1-5
Double bottom, forward,	161	510	Other tanks, if fitted,	—	—
Total capacity of double bottom		900	(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. 5228

Date 20-6-27

Dates of Surveys held while building

1927 May 9. 19. 27. June 2. 8. 10. 17. 27. 30. July 14. 18. 27. Aug. 4. 9. 17. Sept. 5. 8. 9. 13. 26. 27. 28. Oct. 3. 6. 11. 20. 26. Nov. 2. 7. 17. 22. 29. Dec. 1. 6. 14. 23. 28. 1928 Jan. 2.

Total No. of Visits

38