

With or Without
Disconnected Erections.

STEEL STEAMER.

SAT. JUL. 9 1921

Received at London Office.

Date of completion of report
Survey held at

June 21st 1921.

Port of Southampton.

Date, First Survey Aug. 16th 1920

Last Survey June 15th 1921

No. 10980

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

S.S. "RAYLIGHT"

Rig Pole masts.

TONNAGE under

Tonnage Deck.

Do. between Tonnage Dk.

and 3rd and 4th Dk.

Total under Upper Dk.

Do. of Poop.

Do. of B.Q. Dk.

Do. of Bridge House

Do. of Forecastle.

Do. of Houses on Dk.

Do. of excess of Hatchways

Do. above Crown of

Engine Room.

Gross Tonnage

Space.

Crown of

Room.

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Breadth (greatest moulded)

Depth, at middle of length from top of keel to top of

upper deck beams at side

Transverse Number

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

stern post

Longitudinal Number

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

Proportions—Depths to Length—Upper Deck Beam at

side to top of keel

Proportions—Depths to Length—Upper Deck Beam at

side to top of keel

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side to top of keel

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Proportions—Depths to Length—Upper Deck Beam at

side to top of keel

Proportions—Depths to Length—Upper Deck Beam at

side to top of keel

Master John Barmichael.

Year of appointment

Built at

When built

By whom built

Managers

Managers

Managers

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On Deck	Feet.	Inches.	BREADTH—	Feet.	Inches.	DEPTH, ACTUAL—	Top of Floors to top of Upper Dk. Beams	Feet.	Inches.	No. of Decks with flat laid
Rule	180	0	Moulded	29	3	Do. do. do. do.	Second Dk. Beams	10	11	one.

Moulded depth, ft.	ins.	To Bridge Dk.	Round of Upper	ins.
13	6	To Upper Dk.	Dk. Beam, Actual	7

ons of Ship per Register, Length	181	0	breadth	29	4	depth	11	4	Moulded depth, ft.	13	ins.	6	To Bridge Dk.	Round of Upper	ins.
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FRAMING.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	PILLARS.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
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in way of E.A.O.L.	52	3	40	52	3	36	52	PILLARS In 'tween Deck, size and spacing	24	44	24	44			
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E. Angles, or E. Bars amidships	52	3	36	52	3	36	52	" " Hold	3		3				
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in peaks	42	3	34	42	3	34	42	" " Quarter 'tween Dks.							
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in way of Double Bottoms at Solid Floors	3	3	30	3	3	30	3	" " in Hold	4		4				
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machinery space	6	3	38	6	3	38	6	KEELSONS & STRINGERS. <th>Inches in Ship.</th> <th>Inches in Ship.</th> <th>Inches in Ship.</th> <th>Inches in Ship.</th> <th>Inches in Ship.</th> <th>Inches in Ship.</th> <th>Inches in Ship.</th>	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
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g of Frames from centre to centre amidships	22		22					CENTRE LINE KEELSON, Vertical Plate above	21 1/2	40	32	21 1/2	40	32	
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" " length to Collision bulkhead	4	3	42	4	3	42	4	" " Rider Plate	4 1/2	4 1/2	48	4 1/2	4 1/2	48	
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in way of Double Bottoms at Solid Floors	3	3	30	3	3	30	3	" " Flat Plate Keel Angle	4 1/2	4 1/2	48	4 1/2	4 1/2	48	
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" " at intermdt. Bkts.								" " Horizontal Plates on Floors	8 1/2	3	60	8 1/2	3	60	
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MINING, depth of girder	Bull angle	Bull angle						" " Angles or Bulb Angles	8 1/2	3	60	8 1/2	3	60	
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ORS, depth and thickness of Floor Plate								SIDE KEELSONS, Number	5	3	60	5
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WEB FRAMES.				FORGINGS or CASTINGS.			
Inches in Ship.				Inches in Ship.			
WEB-FRAMES, In Fore Body, No. and spacing				KEEL, Bar, depth and thickness			
" " " " " " " " " " " "				STEM, moulding and thickness			
WEB-FRAMES, In E. & B. Space, No. & spacing				STERN-POST for Rudder do. "			
" " " " " " " " " " " "				" " " " " " " " " " " "			
WEB-FRAMES, In After Body, No. and spacing				RUDDER-A x D Table 22. Speed			
" " " " " " " " " " " "				" Main-Piece, diameter at head			
" " " " " " " " " " " "				" " " " " " " " " " " "			
BRACKET PLATES to Stringers between Web Frames, depth and thickness				RUDDER, how constructed			
BULKHEADS.				" Thickness of Plates or Single Plate			
W.T. BULKHEADS				Can the Rudder be unshipped afloat?			
" COLLISION " PARTITION " LONGITUDINAL "				Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.?			
Are the outside Plates doubled two spaces of Frames in length?				Has the Steel been tested as required by the Rules?			
Are the Sluice Valves and Watertight Doors in efficient working order?							
PLATING.				RIVETING.			
STRAKES.				EDGES.			
AS IN SHIP.				Ordinary or jogged?			
PER RULE OR AS APPROVED.				BUTTS.			
FLAT PLATE KEEL				Double or Treble and for what Length			
GARBOARD or A Strake				RIVETS.			
State actual thickness in way of Double Bottom.				STRAPS.			
(Sheer).				IF LAPPED.			
R. E				Do the holes for riveting plate to frames, butt straps, or plate to plate, &c., conform well to each other?			
Q. F				Are the rivet holes well and sufficiently countersunk in the plate and punched from the facing surfaces?			
D. G				Do any rivets break into or through the seams or butts of the plating?			
N				Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)?			
O				Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)?			
P				General Remarks (State quality of workmanship, &c.)			
Q				This vessel has been built in accordance with the approved plans, the Secretary's letters referred to above and in general conformity with the rules for the class contemplated combined steam and steam steering gear and steam windlass tested under working conditions.			
R				I approve plans and one forging certificate encloses herewith.			
S							
T							
U							
V							
W							
THICKNESS OF SHEET PILE							
CLEAR OF LONG BRIDGE							
DO. OF STRAKE BELOW							
DELG. of Flat Plate Keel							
" Sheerstrakes							
Length and thickness.							
POOP SIDES							
SHORT BRIDGE SIDES							
FORECASTLE SIDES							
Where a long bridge is fitted the thickness of Upper Deck Sheerstrake and Strake below should also be stated clear of same.							
Upper Deck Stringer Plate				Butts of Side Stringers			
Second Deck Stringer Plate				Tie Plates			
				Inner Bottom Plating, riveting of Edges			
				Centre Girder Butts			
				Keelson Butts			
				Frames, riveted through Plates with			
				Rivets, state whether Iron or Steel			
FRAMES extend in one length from				State if ordinary or jogged			
REVERSED FRAMES on floors and frames extend from							
MASTS, SPARS, &c.							
LOWER MASTS				DIAMETER AND THICKNESS.			
Bowsprit				At Partners.			
Topmasts, Yards and Remainder of Spars				Heel.			
Rigging, Material and Size, Shrouds				Hounds.			
Sails.				Head.			
				No. of Plates in round.			
				ANGLES.			
				Number.			
				Size.			
				Seams.			
				RIVETING.			
				Butts.			

EQUIPMENT No. 8564				ANCHORS.				TONNAGE U.D.K. OR PLATING No. FOR TRAWLERS			
ANCHORS.				WEIGHT OF STOCK.				TEST, PER CERTIFICATE.			
Number of Certificate.				Cwts. qrs. lbs.				Description of Anchor.			
55962				17 1 14				18 10 2 14			
55961				7 0 14				18 6 3 14			
50503				4 3 8				16 7 3 7			
55963				49 1 8				48			
55964				4 3 21				4 3			
Particulars of Drop Test of Cast Steel Anchors, viz.:-				1st Bower 8				2nd "			
Weight, Surveyor's Initials, Number of Certificate, Date of Test.				3rd 8.1.15; H.C.F. 185; 19th Sept. 1918. London.				4th "			
CHAIN CABLES.				HAWSERS AND WARPS.							
Number of Certificate.				Length and size supplied.				Length and size supplied.			
60				18				60			
Boats Three				Steering Gear, Steam				Steering Gear, Hand			
Pumps, Number Three				Diameter of Barrel 3 1/2				State whether they are in efficient working order			
Windlass is Cammerson, Walker, Thomson.				Capstan Reid & Co.				Height above deck? 4' 9"			
Engine Room Skylights. How constructed? Steel Plate rangles				What arrangements for deadlights in bad weather? Bulls eyes in flaps.				Coal Bunker Openings. How constructed? Steel Plate rangles			
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 2 M.D. 4 Q.D. 2 W.P.				Cargo Battsens, thickness and material 6" 2" W.P.				Hatches, If strong and efficient? Yes			
Ceiling in Holds, thickness and material 2 1/2" W.P.				No. of Breasthooks 2				No. of Crutches Deep Floor			
Cargo Hatchways. How formed? Steel Plate rangles				State size No. 1 Hatch (Forward) 30' 11" x 18' 0"				No. 2 Hatch 29' 9" x 18' 0"			
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch 6 N° 1; 5 N° 2.				Bulwarks, height above deck and description Steel Plate 42" x 25.				Main Rail, material and size 5 1/2" 3" 34" B.A.			
The foregoing is a correct description of the vessel.				Builder's Signature (here only) J. A. Sowson				Surveyor's Signature John A. Sowson			
Correspondence. State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case) Secretary's letters.				M. 24. 3. 20; 20. 4. 20; E. 15. 6. 20; M. 4. 9. 20; M. 26. 4. 21.				Workmanship. Are the butts of plating planed or otherwise fitted? Planed, where practicable.			
Is the riveted work properly closed? 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 facing surfaces? Yes			
Are the butts of plating, stringers, &c., properly shifted and strapped? or overlapped? 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.) good.			
This vessel has been built in accordance with the approved plans, the Secretary's letters referred to above and in general conformity with the rules for the class contemplated combined steam and steam steering gear and steam windlass tested under working conditions.				I approve plans and one forging certificate encloses herewith.							
The Surveyor should state the Number of Report and Name of any Sister Vessel.				Plans to be forwarded with F.E. Report showing vessel as built.							
The amount of Entry Fee £ 4 : 0 : 0				Fees applied for, 1921				Certificate to be sent to Son			
Special Survey Fee £ 71 : 18 : 0				Received by me, 2.9.1921				Date of issue 5.9.21			
Travelling Expenses, if any £ 2 : 6 : 0				State whether the Vessel has been built under Special Survey Yes				I am of opinion this Vessel should be Classed 100 A-1			
With, or without Freeboard, as condition of Class without Freeboard.				Committee's Minute FRI. 15 JUL. 1921				Character assigned 100 A-1			
Lloyd's as b. O.				+ L.M.B. 7.21				C.D.			
W382-0095 2/2											

PARTICULARS OF CABLE.

Certificate No.	Length		Test per cert.		Weight C. & lbs.	Makers name.	Where broken tested & Sup's name.
	Fath.	Dia.	STAT.	BK.			
70708	15	1 1/2	28 1/8	42 1/8	12.2.11	not stated	netherton 3 rd June. 1920. H Green.
70709	15	1 1/2	"	"	12.1.25	"	"
70710	15	1 1/2	"	"	12.0.16	"	"
70711	15	1 1/2	"	"	12.0.26	"	" ✓
70712	15	1 1/2	"	"	12.0.2	" ✓	"
70713	15	1 1/2	"	"	12.2.21	"	"
70889	15	1 1/2	"	"	12.0.0	"	"
70836	105	1 1/2	"	"	85.2.20	"	"
TOTAL	210 ✓	1 1/2 ✓			171-3-9		

70892 | 2 1/2 shackles | 1 1/2 | 28 1/8 | 42 1/8 | 0.1.8 | not stated | netherton 23rd Aug. 1920. L. Wright.

John. A. Lowson.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ✓ ft., R.Q.D. 102.66 ft., Bridge 11.0 ft., Forecastle 34.4 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 should appear in the Register Book) One DK (Steel)

Official No. 145586; Signal Letters _____ State if Machinery is fitted aft mach. aft.

How are the surfaces preserved from oxidation? Inside Paint & cement Outside Paint.

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

Where Fitted.	Length.	Water Capacity.	Where Fitted.	Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft,	✓	✓	Fore peak tank,	25.0	58.
Double bottom, under Engines and Boilers,	✓	✓	After peak tank,	10.6	43.
Double bottom, if under Engines only,	✓	✓	Deep tank, aft,		
Double bottom, if under Boilers only,	✓	✓	Deep tank, forward,		
Double bottom, forward,	{ 49.6" - 80.5" 51.4" - 78.75" 100.10" } 157.2	157.2	Other tanks, if fitted,		
	Total capacity of double bottom		(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. 8436

Date 2nd October 1920

No. 1559 in builder's yard.

DATES of Surveys held while building

1920. Aug. 16. 20. 25. 27. Sept. 1. 8. 17. Oct. 1. 6. 13. 22. 23. Nov. 5. 10. 17. 24. 29. DEC 7. 10. 15. 22
1921. JAN 5. 10. 14. 26. Feb. 3. 8. 11. 15. 23. MAR 2. 7. 10. 15. 18. 22. APRIL 5. 11. 28. MAY 3. 5.
JUNE 2. 7. 10. 15

Total No. of Visits 47

Surveyor's Signature

John. A. Lowson.

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Lloyd's Register
Foundation