

No. 1879

TRANSFERRED TO:
L R SYSTEM

BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

TRANSFERRED TO:
L R SYSTEM

Report No. 1983 No. in Register Book 3315

RETAIN

S.S. "EL AMIN"

Builder Messrs Bow McLaughlan & Co.

Yard No. 454

HULL AND EQUIPMENT.



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002385-002400-0032

BRITISH CORPORATION FOR THE SURVEY

AND

REGISTRY OF SHIPPING.

Report No.

No. in Register Book,

Received at Head Office,

2nd October 1926

Surveyor's Completion Report on the Construction of the
Steel Ship "EL AMIN"
R.C.

Official No.

Surveyor's District Glasgow
Builders Bow Mc Lachlan & Coy. Ltd.
Yard No. 454
Surveys held at Paisley.
Owners The Hala Shipping Company Ltd.
Port of Registry London Flag
Managers A. Besse
Manager's Address

Master A.D. Blair

Year of Certificate 1903

Rig F. & A.

Code Letters

Scantling Sections approved by Committee 18-11-25

To be classed

B.S.* (with freeboard)

With a Freeboard of

1'-0 1/2"

Date of First Visit

21-10-25

Date of Last Visit

30-9-25

Total number of Visits

65

Keel Laid

3-12-25

Launched 14-5-26

Date of Build

9/26

Date of this Report

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BRITISH CORPORA THE SURVEY
PARTICULARS.
Registered Dimensions 191.10' x 32.90' x 10.80'

Tonnages—

Tons.
Under Tonnage Deck 495.85
In "Tween Decks
In "Tween Decks
In "Tween Decks
In Turret

Suez Canal Tonnage— Under Deck Tonnage 493.57

Tonnage in Poop

" ~~ROD~~ } Shelter Deck 382.13
" Bridge
" Forecastle
" Hatchways
" Deck Houses
" Chart Houses
" Light and Air Spaces

Gross Tonnage 745.59

Deductions—

Crew Space
Engine Room %
Light and Air
Navigation Spaces and Stores
Peak Tanks
Deep Tanks

Net Registered Tonnage 333.98

Date of Expiry of Vessel's B.O.T. Passenger Certificate

PARTICULARS—Continued.

Moulded Dimensions 190.0' x 32.9' x 12.9'
Height of Superstructure 7'-3"

Proportions $\frac{L}{B} = \frac{190.0}{32.75} = 5.8$ $\frac{L}{D} = \frac{190.0}{12.75} = 14.9$

$\frac{D}{B} = \frac{12.75}{32.75} = .39$ $\frac{L}{D \text{ (to Top of Superstructure)}} = \frac{190.0}{20.0} = 9.5$

Camber 8 3/4" Rise of Floor 9"

Number and Description of Decks for Register Book One

Number of Decks under Freeboard Deck None

" " above " " One

Heights of "Tween Decks 7'-3"

Particulars of Superstructures Shelter Deck

Distance between Bulkheads of Superstructures

Freeboard Ratios of Superstructures

Watertight Bulkheads.—State Number of Frame and Deck to which each Bulkhead extends

Bulkhead, Frame No.	extends to	Deck	Bulkhead, Frame No.	extends to	Deck
Fore Peak	" 87	"	No. 8	"	"
No. 1	" 52	Upper	" 0	"	"
" 2	" 29	"	" 10	"	"
" 3	"	"	" 11	"	"
" 4	"	"	" 12	"	"
" 5	"	"	" 13	"	"
" 6	"	"	" 14	"	"
" 7	"	"	After Peak	" 7	Upper

PARTICULARS—Continued.

State which Bulkheads enclose Machinery Space

Bulkheads on frames 7 & 29

State Number of Bulkheads to be recorded as effective

4

Number and Length of effective Watertight Compartments beginning Forward

N^o 1 Hold 70'0"
 " 2 " 46'0"

Number of Non-Watertight Bulkheads

None

Double Bottom

Extends from Frame

28

to Frame

87

Length and Capacity of Tanks—

No. 1	38	Feet	35	Tons	Fore Peak	Feet	40	Tons
" 2	16	"	24	"	Aft Peak	"	16	"
" 3	32	"	54	"	Deep Tanks	—	—	"
" 4	22	"	31	"				
" 5	8	"	8.5	"				
" 6		"		"	Oil Bunkers	—	—	"
" 7		"		"				
" 8		"		"				
" 9		"		"				
" 10		"		"				

Particulars of Oil Fuel Tanks in Double Bottom.

State where Centre Girder Watertight

N^o 1 D.B. Tank (Water Ballast)

" 2 " " (Feed Water)

Centre Girder Oiltight

N^o 3 D.B. Tank (Fuel Oil)

" 4 " " (Lubricating Oil)

GENERAL

In the case of Steel Ships state particulars of Parts where Iron is used

Rivets only

~~In the case of Wood Ships state particulars of Wood used in different parts~~~~In the case of Reinforced Concrete Ships state particulars of Concrete used in different parts and also Nature and Quality of Reinforcement~~

State, to the best of your knowledge, whether the Materials used have been tested, and are in accordance with the Rule requirements

Yes

Give particulars of all Tests carried out under your supervision or date of your Report thereon



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GENERAL—Continued.

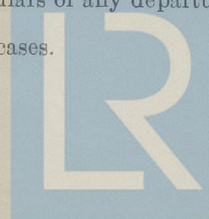
PARTICULARS OF SCANTLINGS, ETC.

Where it is subsequently stated in this report that any portion of the structure is in accordance with approved Plans, and particulars are therefore not detailed, the name of plan and date of approval are to be entered in the appropriate place.

All differences from approved Plans and/or the Rules are to be recorded in this report, together with any necessary explanatory Sketches.

Where no detailed approved Plan is on record, full particulars of Scantlings, Construction and Riveting are to be reported, in conjunction with such Sketches as are necessary for clearness.

Where riveting is in exact accordance with the approved Plans and/or Rules this is to be stated in each case, and particulars of any departure therefrom are to be detailed in all cases.



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KEELS, STEMS, STERN FRAMES, AND RUDDERS.

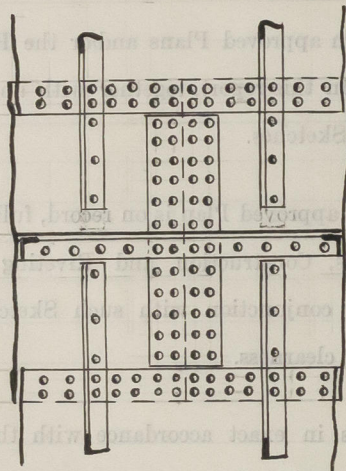
State particulars, which do not appear on approved Plans, of Dimensions; ~~Scantlings of Bar Keels~~; Stems; Stern Frames; Butts of Flat Plate Keels; Connections at Heel of Stems and Stern Frames to Hull; Rudder Stocks, Couplings, Pintles, Gudgeons, Rudder Arms, Riveting; and whether forged or cast; ~~Arrangement and Scantlings of Spentacle Bossing or Propeller Brackets and state material.~~

State whether particulars not given are in accordance with approved Plans *yes*

State name of approved Plans and date of approval.

Stem plan (N^o 7) Approved 5-11-25
 Sternframe (N^o 6) " 3-11-25
 Keel plan (N^o 10) " 25-11-25

For keel butts see Keel plan.



KEELS, STEMS, STERN FRAMES, AND RUDDERS—Continued.



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CENTRE KEELSONS (SINGLE BOTTOM). IN WAY OF ENGINES ONLY

State particulars, which do not appear on approved Plan, of Scantlings and Riveting, illustrated by Sketches

of Construction, amidship, at ends, and under ~~Bellows and~~ Engines; of Connections to Keel; Horizontal

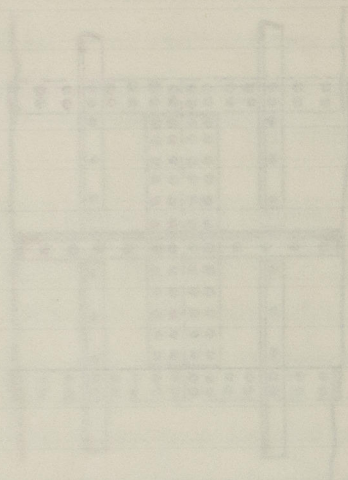
Top Plates; ~~Under Keelson~~; Floor Connections and End Connections.

State whether particulars not given are in accordance with approved Plans.

Yes

State name of approved Plans and date of approval.

Keel and Centre Girder (N^o 10) Approved 25-11-25
Engine Seating (N^o 14) " 31-11-25



CENTRE KEELSONS—Continued.

State particulars, which do not appear on approved Plan, of Scantlings and Riveting, illustrated by Sketches
of Construction, amidship, at ends, and under ~~Bellows and~~ Engines; of Connections to Keel; Horizontal
Top Plates; ~~Under Keelson~~; Floor Connections and End Connections.
State whether particulars not given are in accordance with approved Plans.
State name of approved Plans and date of approval.

No. of Compartments (forward) and found satisfactory	Section	Date	Particulars
1	Midship Section	25-10-25	Keel and Centre Girder (N ^o 10)
2	Midship Section	25-10-25	Engine Seating (N ^o 14)
3	Midship Section	25-10-25	Keel and Centre Girder (N ^o 10)
4	Midship Section	25-10-25	Engine Seating (N ^o 14)
5	Midship Section	25-10-25	Keel and Centre Girder (N ^o 10)
6	Midship Section	25-10-25	Engine Seating (N ^o 14)
7	Midship Section	25-10-25	Keel and Centre Girder (N ^o 10)
8	Midship Section	25-10-25	Engine Seating (N ^o 14)
9	Midship Section	25-10-25	Keel and Centre Girder (N ^o 10)
10	Midship Section	25-10-25	Engine Seating (N ^o 14)



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DOUBLE BOTTOM.

State particulars, which do not appear on approved Plans, of Scantlings and Riveting, illustrated by Sketches of Construction, of Centre Girders Amidships, at Ends, ~~and under Boilers and Engines~~; End Connections; ~~Moulds in Centre Girder and Compensation where fitted~~; Centre Girder where watertight; Scantlings, &c., of Solid Floors; Frames and Reverse Frames on Solid Floors; Stiffeners on Tank End Floors; Open Floors, extent and spacing; Open Floor Frames, Reverses, Struts, and Brackets; Tank Top Plating, Butts, and Seams; Sheathing; Margin Plates; Margin Brackets to hold Frames; Connection to Tank Margin and Frames; ~~Cassets~~; Intercostal Girders, ~~amidships, under Engines, Thrust, Boilers, and Boiler Bores~~; Arrangement and Spacing at Ends; Engine and Thrust Seatings; Stiffening under Wide Spaced Pillars and Air Pipes in each Compartment of Double Bottom.

State whether particulars not given are in accordance with approved Plans.

Yes

State name of approved Plans and date of approval.

Midship Section 29-10-25
Cr. Girder & Tank Top 25-11-25
Date. Surveyor's Initial.

No. 1 Compartment (forward) tested and found satisfactory

3-5-26 CAY.

" 2 " " " 6-5-26 CAY.

" 3 " " " 3-5-26 CAY.

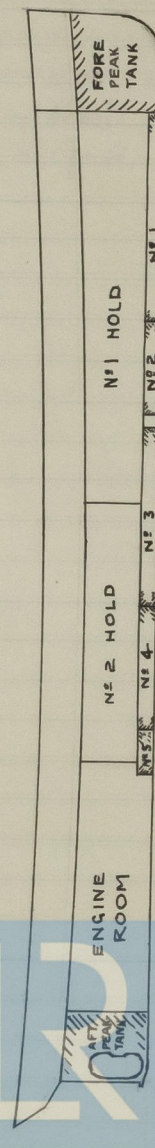
" 4 " " " 6-5-26 CAY.

" 5 " " " 3-5-26 CAY.

" 6 " " " —

DOUBLE BOTTOM—Continued.

SKETCH PROFILE SHOWING TANKS



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HOLD FRAMES AND REVERSE FRAMES.

State particulars, which do not appear on approved Plans, of Framing in Fore Peak; forward $\frac{1}{3}$ length or Fore Hold; $\frac{1}{3}$ to $\frac{2}{3}$ length forward or 2nd Hold; 3rd Hold; Amidships; ~~Bunkers~~; ~~Boiler Space~~; Engine Space; ~~Deep Tanks~~; After Holds; ~~Tunnel Plats~~; After Peak; also Connections at Head and Heel.

State whether Particulars not given are in accordance with approved Plans.

Yes

State name of approved Plans and date of approval.

Midship Section 29-10-25
Profile & Decks

HOLD FRAMES AND REVERSE FRAMES—Continued.



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TWEEN DECK FRAMING.

State particulars, which do not appear on approved Plans, of Framing in various Tween Decks.

State whether particulars not given are in accordance with approved Plans. *yes*

State name of approved Plans and date of approval.

Midship Section (PLAN N^o 3) Approved 29-10-25
 Profile & Decks (" 4) " " "

TWEEN DECK FRAMING—Continued.

State particulars, which do not appear on approved Plans, of Framing in various Tween Decks.

State whether particulars not given are in accordance with approved Plans. *yes*

State name of approved Plans and date of approval.

Profile and Decks (Plan N^o 4) Approved 29-10-25
 Bulkhead plan (" 2) " " "

Web frames fitted in Tween Decks only
 above W.T. Bulkheads and at shell doors forward



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WEB FRAMES AND SIDE STRINGERS.

State particulars, which do not appear on approved Plans, of Scantlings; Spacing; Attachments at Head and Heel; ~~Reverse Frames~~; ~~Ends of Side Stringers~~; Beams at Heads of Web Frames.

State whether particulars not given are in accordance with approved Plans.

Yes

State name of approved Plans and date of approval.

Profile and Decks	(Plan N ^o 4)	Approved	29-10-25
Bulkhead plan	(" " 5)	"	19-11-25

Web frames fitted in Tween Decks only,
above W.T. Bulkheads and at shell doors forward.

WEB FRAMES AND SIDE STRINGERS—Continued.

State particulars, which do not appear on approved Plans, of ~~Reverse Frames~~, ~~Ends of Side Stringers~~, ~~Beams at Heads of Web Frames~~.

State whether particulars not given are in accordance with approved Plans.

Yes

State name of approved Plans and date of approval.

25-10-25	Approved	(Plan N ^o 3)	Midship Section
20-11-25	"	(" " 8)	Stowage framing
11-12-25	"	(" " 10)	Engine Section



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SINGLE BOTTOMS. IN WAY OF ENGINES ONLY.

State particulars, which do not appear on approved Plans, of Floors, Frames, Reverse Frames, Side Girders,

Engine and Thrust Seats, ~~Boiler Decks~~, End Floors, Bossing, and Transom Floors.

State whether particulars not given are in accordance with approved Plans. **Yes.**

State name of approved Plans and date of approval.

Midship Section	(Plan N ^o 3)	Approved	29-10-25
Stern framing	(" " 8)	"	20-11-25
Engine Seating	(" " 14)	"	31-12-25

SINGLE BOTTOMS—Continued.

State particulars, which do not appear on approved Plans, of Spacing and Positioning of Beams, Main Beams,

Beam Ends and End Connections to Girders and Hatch Connections on all Decks; Houses of Mast-Steps

Hatchways

Open Decks, Transom Decks, Side Decks, Transom Decks, and

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Midship Section (Plan N^o 3)

Approved 29-10-25

Stern framing (" " 8)

Approved 20-11-25

Engine Seating (" " 14)

Approved 31-12-25



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BEAMS.

State particulars, which do not appear on approved Plans, of Spacing and Scantlings of Beams, Half Beams,

Beam Knees and Lug Connections to Girders and Hatch Coamings on all Decks; Beams of ~~Deep Tank~~

~~Top, Tunnel Top, Bulkhead Reccess,~~ Open Decks, Transom Beams, ^{Hatch end} ~~Wide Spaced Hold~~ Beams, and

~~Strong Beams in Machinery Space.~~

State whether particulars not given are in accordance with approved Plans. *yes*

State name of approved Plans and date of approval.

Midship Section (Plan N^o 3) Approved 29-10-25
Profile & Decks (" " 4) " "

BEAMS—Continued.



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lings, and End Connections.

State name of approved Plans and date of approval.

None

STANCHIONS, PILLARS, AND GIRDERS.

State particulars, which do not appear on approved Plans, of number of Rows of Stanchions and where fitted; distance out from Centre Line of Girders or Runners; Spacing, Type, and General Scantlings of Stanchions, Pillars and Girders; Attachment at Heads and Heels of Stanchions and Pillars; Pillars in Engine Room; Attachment of Girders to Bulkheads and at Hatch Corners, ~~Supports under Bulkhead Recesses and Deep Tanks~~; Supports at ends and corners of Deckhouses and Erections; ~~extent and details of Longitudinal Cargo Divisions~~.

State whether particulars not given are in accordance with approved Plans. Yes

State name of approved Plans and date of approval.

Midship Section (N ^o 3)	Approved 29-10-25
Profile & Decks (N ^o 4)	" "
Shelter Deck (N ^o 20)	Reference Plan
Upper " (N ^o 19)	" "

STANCHIONS, PILLARS, AND GIRDERS—Continued.



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WATERTIGHT BULKHEADS.

State particulars, which do not appear on approved Plans, of Watertight Bulkheads as given on page 3;

Welds in Tween Decks above Bulkheads; Attachments; Sluice Valves and Cocks.

State whether particulars not given are in accordance with approved Plans.

Yes

State name of approved Plans and date of approval.

(See also page 4)

Profile & Deck (Plan No 4) Approved 29-10-25
Bulkhead plan (" " 5) " 19-11-25

WATERTIGHT BULKHEADS—Continued.



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WATERTIGHT BULKHEADS—TESTING.

State particulars and dates of tests of Watertight Bulkheads.

Aft peak bulkhead tested with tank 11-5-26

Two midship bulkheads hose tested 11-5-26

Top part of collision bulkhead tested 11-5-26

Lower " " " " " with fore
peak tank 6-5-26

WATERTIGHT BULKHEADS—TESTING—Continued.



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PANTING ARRANGEMENTS.

State particulars, which do not appear on approved Plans, illustrated by Sketches of construction, of Scantling Arrangements, Heights of End Floors; Panting Beams and Stringers; Breast Hooks; Pillars; Shell Lugs on Stringers and Flats in Peaks; Attachments of Stiffeners and Framing to Stringers.

State whether particulars not given are in accordance with approved Plans. *yes*

State name of approved Plans and date of approval.

Profile & Deck	(Plan N ^o 4)	Approved	29-10-25
Panting Arrangement	(" " 9)	"	19-11-25
Stern framing & Cants	(" " 8)	"	"

PANTING ARRANGEMENTS—Continued.

State particulars, which do not appear on approved Plans, illustrated by Sketches of construction, of Scantling Arrangements, Heights of End Floors; Panting Beams and Stringers; Breast Hooks; Pillars; Shell Lugs on Stringers and Flats in Peaks; Attachments of Stiffeners and Framing to Stringers.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Midship Section	(Plan N ^o 3)	Approved	29-10-25
Shell Extension	(" " 1)	"	23-11-25



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SHELL PLATING.

State particulars, which do not appear on approved Plans, of number of Stakes of Plating, average Length and Width Amidships; Thickness of Side Plating Amidships and at Ends; Bottom Plating Amidships, Ends, and Flat of Floor Forward; End Connections; Seam Connections; ~~Construction at Breaks of~~ ~~Erections~~; Compensation in way of Cargo Doors, Sidelights and other Openings; Doublings where fitted; Forefoot Plate, After Hood Plating, Boss Plating; Sheerstrakes, Topside Plating, ~~Garboard Stakes with~~ ~~Pay Tools~~; Gunwale Angles and Mouldings.

State whether particulars not given are in accordance with approved Plans.

Yes

State name of approved Plans and date of approval.

Midship Section (Plan N° 3) Approved 29-10-25
 Shell Expansion (" N° 13) " 23-12-25

SHELL PLATING—Continued.

State particulars, which do not appear on approved Plans, of number of Stakes of Plating, average Length and Width Amidships; Thickness of Side Plating Amidships and at Ends; Bottom Plating Amidships, Ends, and Flat of Floor Forward; End Connections; Seam Connections; ~~Construction at Breaks of~~ ~~Erections~~; Compensation in way of Cargo Doors, Sidelights and other Openings; Doublings where fitted; Forefoot Plate, After Hood Plating, Boss Plating; Sheerstrakes, Topside Plating, ~~Garboard Stakes with~~ ~~Pay Tools~~; Gunwale Angles and Mouldings.

State whether particulars not given are in accordance with approved Plans. Yes

State name of approved Plans and date of approval.

Midship Section (Plan N° 3) Approved 29-10-25
 Profile to Decks (" N° 4) " 23-12-25
 Upper Deck (" N° 11) " 23-12-25
 Shelter (" N° 12) " 23-12-25



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CEILING AND SPARRING.

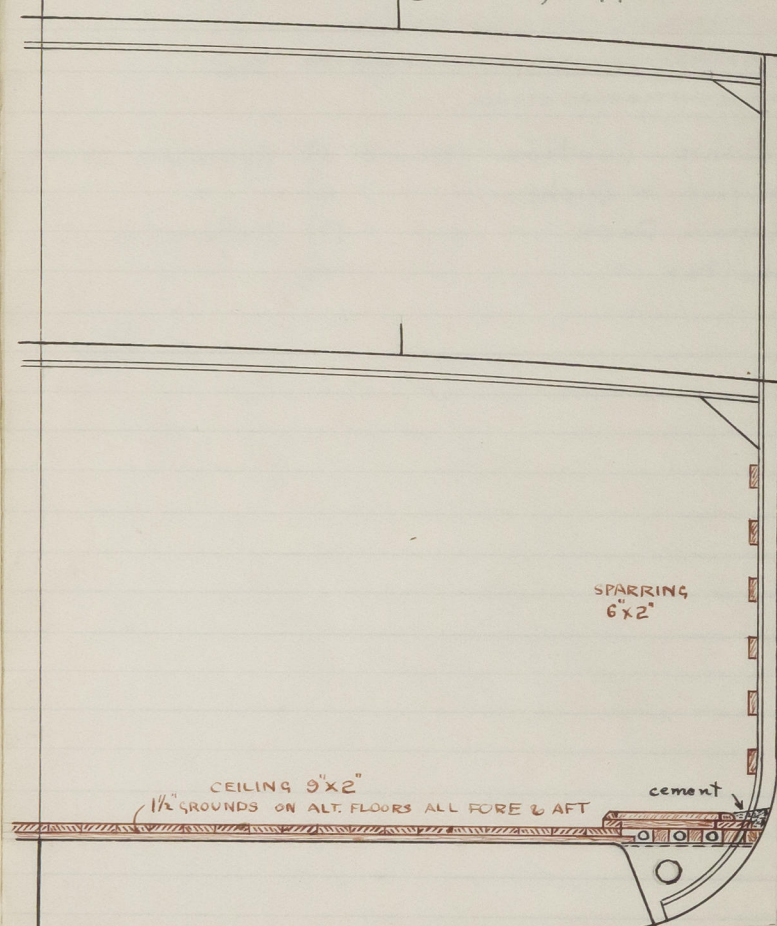
State particulars, which do not appear on approved Plans, of Close Ceiling and how fastened in Holds and Bulkheads; if Tank Top Ceiled where Double Bottom is used for Oil Fuel; Sparring and how fastened in Holds, Tween Decks; Manhole Covers, and Protection.

State whether particulars not given are in accordance with approved Plans.

Yes

State name of approved Plans and date of approval.

Midship Section (Plan N^o 3) Approved 29-10-25



Ceiling built over piping in N^o 2 Hold, & after half of N^o 1 Hold. Fore part of N^o 1 Hold ceiling run straight out.

SUPERSTRUCTURES.

State particulars, which do not appear on approved Plans, of 1st Superstructure $\frac{\text{Length}}{\text{Length of Ship}} =$;
 2nd Superstructure $\frac{\text{Length}}{\text{Length of Ship}} =$; illustrate by Sketches of Cross Section through
 Superstructures; Coaming and Top Angles; Plating Amidships, at Ends; Riveting of Seams; Doublings
 at Windows and Doorways; Top Plating; Stiffening; Beams; Web Plates and Partial Bulkheads;
 Breaks in continuity; and Bulkheads at End of Erections on Freeboard Deck.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Shelter Deck vessel.

No super structures above Shelter Deck.



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HATCHWAYS AND OTHER DECK OPENINGS.

State particulars, which do not appear on approved Plans, of Dimensions of Openings in different Decks;

Scantlings of Coamings; Coaming Angles; Side Stiffeners; Stays; Spacing and Scantlings of Hatch

Webs; Hatch Covers; Details of Hatch Corner Construction; Mast Openings; Engine and Boile

Openings, and Casings and Companion Ways.

State whether particulars not given are in accordance with approved Plans.

Yes

State name of approved Plans and date of approval.

Midship Section (N ^o 3)	Approved	29-10-25
Profile & Decks (" 4)	"	"
Hatch Plan (" 17)	"	14-1-26

DECK OPENINGS—Continued.



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MACHINERY SPACE ~~AND TUNNEL~~

State particulars, which do not appear on approved Plans, of ~~Through Beams and Stanchions in Machinery Space; Engine Seating; Thrust Seating; Boiler Stools; Thrust Stools; Hoisting Arrangements; Scantlings of Stiffeners; Plating and Coaming Angles of Tunnels and Tunnel Receivers; Escape Hatches; Stiffening of Tunnels under Stanchions; and particulars and dates of Water-Testing Tunnels.~~

State whether particulars not given are in accordance with approved Plans.

yes.

State name of approved Plans and date of approval.

Profile and Decks (Plan N^o 4) Approved 29-10-25
Casing & Deckhouses (" " 18) " 2-3-26

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MACHINERY SPACE AND TUNNEL—Continued.

State particulars which do not appear on approved plans of Machinery Space and Tunnel in
 Machinery Space; Nature of Machinery; Nature of Machinery; Nature of Machinery; Nature of Machinery;
 Nature of Machinery; Nature of Machinery; Nature of Machinery; Nature of Machinery; Nature of Machinery;
 Nature of Machinery; Nature of Machinery; Nature of Machinery; Nature of Machinery; Nature of Machinery;

Yes

Profile and Decks (Plan 4) Approved 27-10-12
 Ceiling and Deckhouse (Plan 18) Approved 27-10-12

RIVETING AND CAULKING.

See over page

Iron rivets throughout.
 All rivets $\frac{3}{8}$ " with the exception of the
 butts and landings of the keel plate which
 are $\frac{1}{2}$ " diam.
 Rivets tested by compression & bending
 on 4-3-20 and found satisfactory.
 Caulking done by hand throughout and
 found very satisfactory.



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RIVETING AND CAULKING—Continued.

Iron rivets throughout.

All rivets $\frac{5}{8}$ " with the exception of the butts and landings of the keel plate which are $\frac{3}{4}$ " dia..

Rivets tested by compression & bending on 4-3-26 and found satisfactory.

Caulking done by hand throughout and found very satisfactory.

ELECTRIC WELDING.

State particulars of Electrodes, Manufacturers, Voltage, Amperage, sizes of Electrodes, arrangements for skilled supervision of work in the Yard; Particulars of Hammer and other Tests, including Samples of work in Yard.

Portions of Structure where Electric Welding used, Thickness of Material Welded, Size and Types of Welds, Angles of Edges and Clearance of Base in Butt Welds, Depth and Width of Lap Welds, and Connections of Plates and Bars.

None



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BULWARKS, PORTS, SCUPPERS, ETC.

State particulars, which do not appear on approved Plans, of Length and Height of Bulwarks; Freeing Port Area; Construction of Freeing Ports; Details of Gangway Doors, Scuppers from Watertight Decks; Soil Pipe Elbows below Freeboard Deck.

State whether particulars not given are in accordance with approved Plans.

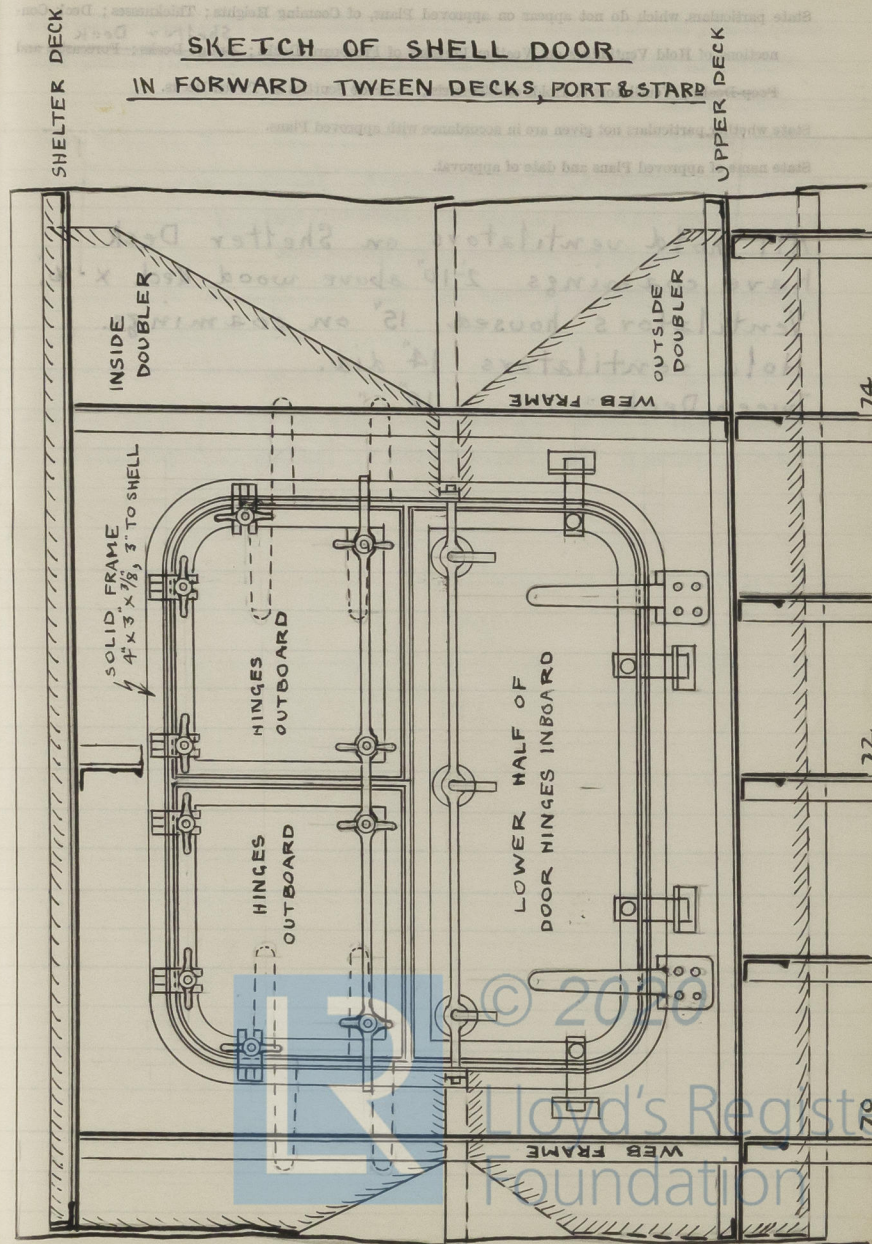
Yes.

State name of approved Plans and date of approval.

Bulwark at forward end only. See Shell plan.

BULWARKS, PORTS, SCUPPERS, ETC.—Continued.

SKETCH OF SHELL DOOR
IN FORWARD TWEEN DECKS, PORT & STARBOARD



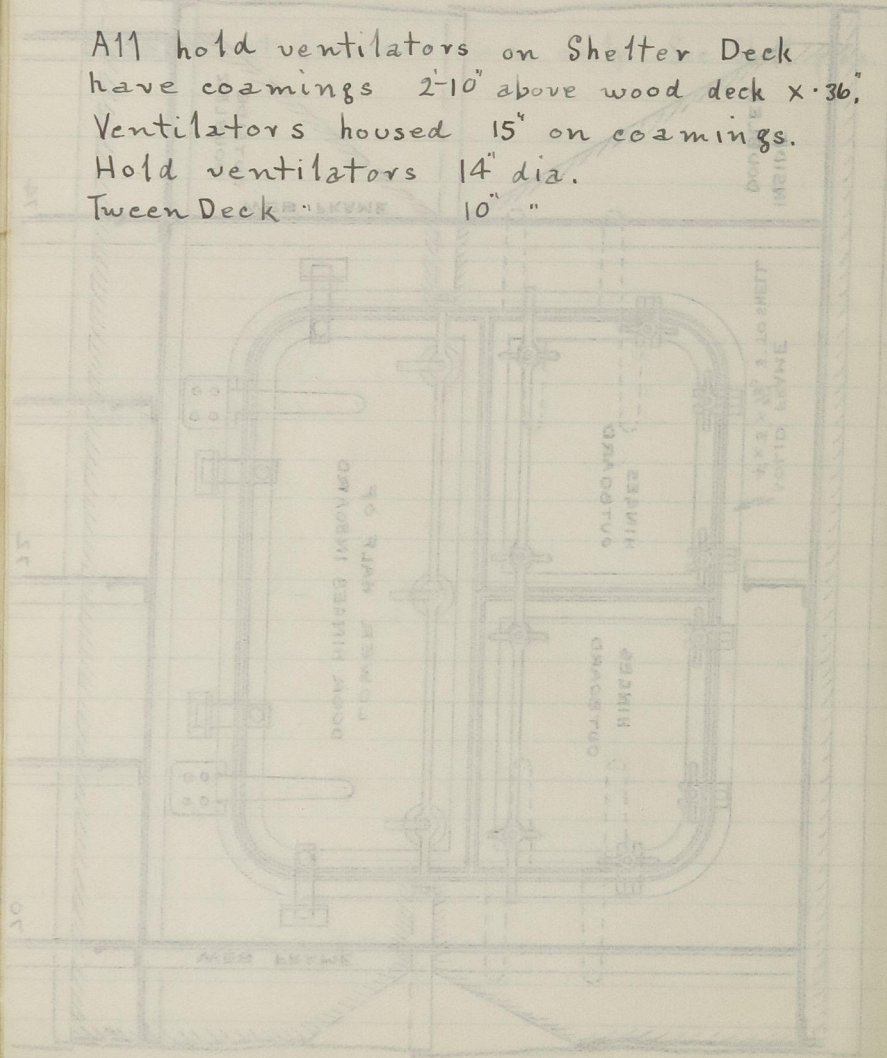
VENTILATORS AND SIDE SCUTTLES.

State particulars, which do not appear on approved Plans, of Coaming Heights; Thicknesses; Deck Connections of Hold Ventilators on Weather Portions of Freeboard Decks; Shelter Deck Bridge Decks; Forecastle and Peep Decks; Ventilators to Holds and Tunnels; and Side Scuttles in Tween Decks.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

All hold ventilators on Shelter Deck have coamings 2'-10" above wood deck x 36". Ventilators housed 15" on coamings. Hold ventilators 14" dia. Tween Deck 10" "



VENTILATORS AND SIDE SCUTTLES—Continued.

State particulars, which do not appear on approved Plans, of Hold Ventilators on Weather Portions of Freeboard Decks; Shelter Deck Bridge Decks; Forecastle and Peep Decks; Ventilators to Holds and Tunnels; and Side Scuttles in Tween Decks.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Approved Plans

Hand pump to Chain Locker tested 20-1-19



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PUMPING ARRANGEMENTS.

State particulars, which do not appear on approved Plans, of Hand Pumps or Power Pumps and from which Deck they are operated; Hand Pump to Chain Locker only Fore Peak, Drain Boxes and Tank Tops; Sounding Pipes, Testing of Pumps.

Are the Chambers of the Plunger Pumps Copper? Yes

Is a Plate fitted under the Lower End of each Sounding Pipe? Yes

Are Pump Chambers, Tall Pipes, and Rods protected by substantial Casings? Yes.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

Pumping Plan

Approved 14-1-26

Hand pump to Chain Locker tested 20-9-26

CEMENTING AND PAINTING.

State if and where Portland Cement is used and how it is applied.

State particulars and Composition of Cement, Cement Wash, Paint, or Bitumastic, in Tanks and elsewhere.

Portland cement laid in Nos 1 & 2 D.B. Tanks also chocks fitted at shell at line of tank top and at Upper Deck.

Cement composed of two of river sand to one of cement.

Nos 1 & 2 D.B. Tanks, also Fore & Aft Peak tanks cement washed.



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MASTS, ~~SPARS~~, AND RIGGING.

Steam Vessels.—State particulars, which do not appear on approved Plans, as to Heights, Diameters, and Scantlings of Masts; Derrick Loads and Outreaches; ~~Scantlings and arrangements of Derrick Tables and Outriggers.~~

Sailing Vessels.—The same particulars as for Steam Vessels, where applicable, also particulars of Rigging, details of Canvas and Sail Area.

State whether particulars not given are in accordance with approved Plans.

Yes

State name of approved Plans and date of approval.

Rigging & Mast Plan (Reference) 8-1-26
Details of Masts Approved 8-1-26

MASTS, SPARS, AND RIGGING—Continued.

No. of Cert. tested		When tested	Where tested	By whom tested	Remarks
53525	"	11-22-10	10-1-10	10-1-10	10-1-10
150	2 1/2	Flexible steel wire rope			
300	3	"	"	"	"
150	1	"	"	"	"
90	1	"	"	"	"
Anchors					
Weights					
Masts					
Derrick					
Outriggers					
Derrick Tables					
Sails					
Canvas					
Rigging					
Mast					
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State Equipment Numbers and corresponding Letter for Register Book.

865 C 22

Chain Cables, Stream Chains, Wires, &c.—State particulars of number of Certificates, where and when Tested, Length, Size, Weight, and Maker's Name.

Anchors.—State number of Certificates, where and when Tested, Weight of Head Shank and Stock, and Maker's Name and Type of Anchor.

Steering Gear.—State Diameter of Steering Chains and Rods; Diameter and Scantlings of Quadrant; Diameters of Quarter and Leading Blocks; Type and Maker's Name of Gear.

Windlass and Capstan.—State particulars of Type and Maker's Name and if satisfactory under trial.

Winches.—State Number, Size, and Type fitted.

Lifeboats.—Number and Dimensions.

Chains

N ^o of Cert.	Where Tested	When Tested	Length in fathoms.	Size	Weight	Makers Name
29141	Cardiff	23.9.25	105	1 7/8"	101.2.14	Kendrick & Mole, Cradley Heath
29352	"	12.12.25	105	1 3/8"	101.3.0	

Wires

120 Fms.	3 1/2"	Flexible steel wire rope.				
90	3"	"	"	"	"	"
360	2 1/4"	"	"	"	"	"
120	1"	"	"	"	"	"
90	6"	Hemp hawser.				

AnchorsWeights

N ^o of Cert.	Where Tested	When Tested	Head	Shank	Stock	Makers Name	Type
29257	Sunderland	14.1.26	Rule 20 1/4 cwt 12.0.23	8.0.5	—		Byres Improved stockless.
29256	"	"	Rule 20 1/4 cwt 12.0.14	7.0.14	—		
29254	"	"	Rule 17 1/2 cwt 11.1.17	7.0.4	—		
16442	Cardiff	3.2.26	Head & Shank 7.0.0	1.3.14		Kendrick & Mole.	Common
16441	"	"	3.0.0	3.0		"	"

The heads of the three stockless anchors were made by Otto Gruson & Co, and tested at Magdeburg.

Steering Gear

N ^o of Cert.	Where Tested	When Tested	Length in feet	Size of Links			Weight	Test
				Length	Breadth	Dia.		
25959	Cradley Heath	18.5.26	28'-6"	4 9/16"	3 1/4"	1 5/16"	2.1.14	10.10
25960	"	"	"	"	"	"	"	"
25961	"	"	40'-0"	"	"	"	3.0.16	"
25962	"	"	"	"	"	"	"	"
25963	"	"	60'-0"	"	"	"	4.3.4	"
25964	"	"	"	"	"	"	4.3.22	"

Chains made by Messrs Woodhouse Bros., Cradley Heath, Staffordshire.

Rudder quadrant 3'-8" rad. (See Rudder & Stern frame plan)

Dia. of Quarter Blocks 16"
" " Leading " 9"

Steering Gear. Combined steam & hand $\frac{5" \times 5"}{7 \frac{1}{2}"}$
Makers Messrs Bow Macdonald.

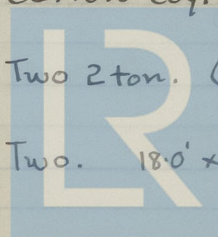
Windlass $\frac{7 \frac{1}{2} \times 7 \frac{1}{2}}{10}"$ Makers Messrs Clark Chapman.

Capstan $\frac{6 \frac{1}{2} \times 6 \frac{1}{2}}{7}"$ " " " "

Winch Carron Coy. Stirlingshire.

Cranes Two 2 ton. Caldwell & Coy. Glasgow.

Lifeboats Two. 18.0' x 6.35' x 2.35'. 16 persons.



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DEEP TANKS, OIL TANKS, AND OIL BUNKERS.

State particulars, which do not appear on approved Plans, of Position and Arrangement; Scantlings of Plating, Stiffeners, Deck Girders, Wash Bulkheads and Plates; Top Plating; Frame Connections; Means to prevent Overloading; Height of Filling, Air and Sounding Pipes; in the case of **Oil Tanks**, give Density and Flash Points of Oils; Arrangements of Expansion Trunks, Cofferdams, and details of Ventilation; state particulars of Packing used.

State Arrangements of Pump Rooms, means of keeping Low Flash Point Oil separate from other Oil, and provisions made where Low Flash Point Oils are used for Oil Fuel.

State whether particulars not given are in accordance with approved Plans.

State name of approved Plans and date of approval.

None

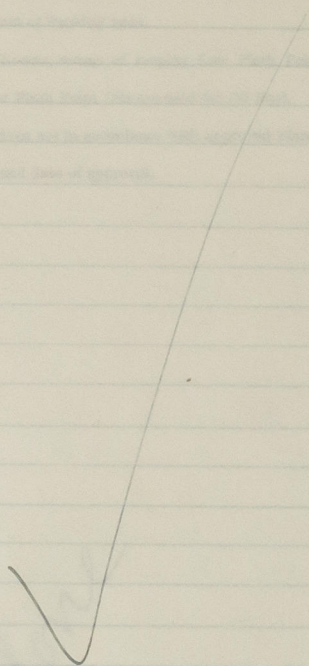
DEEP TANKS, OIL TANKS, AND OIL BUNKERS—Continued.



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DEEP TANKS, OIL TANKS, AND OIL BUNKERS—Continued.



DEEP TANKS, OIL TANKS, AND OIL BUNKERS—Continued.

Test Head above Top of Tank.	Deflection at Full Tank.	Deflection with Test Head.	Date.	Initials.
------------------------------------	--------------------------------	----------------------------------	-------	-----------

No. 1 Tank, Port, Tested and found satisfactory.

"	Starb'd,	"	"	"
2	"	Port,	"	"
"	Starb'd,	"	"	"
3	"	Port,	"	"
"	Starb'd,	"	"	"
4	"	Port,	"	"
"	Starb'd,	"	"	"
5	"	Port,	"	"
"	Starb'd,	"	"	"
6	"	Port,	"	"
"	Starb'd,	"	"	"
7	"	Port,	"	"
"	Starb'd,	"	"	"
8	"	Port,	"	"
"	Starb'd,	"	"	"
9	"	Port,	"	"
"	Starb'd,	"	"	"
10	"	Port,	"	"
"	Starb'd,	"	"	"
11	"	Port,	"	"
"	Starb'd,	"	"	"
12	"	Port,	"	"
"	Starb'd,	"	"	"



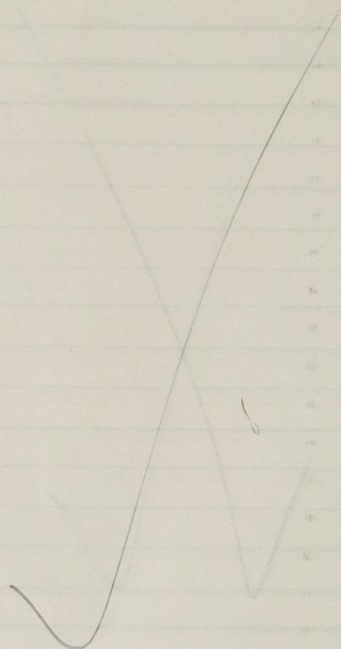
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DEEP TANKS, OIL TANKS, AND OIL BUNKERS—Continued.

State which Tanks are used as Oil Fuel Bunkers.

Give position and size of Air Pipes or Ventilators from each Tank.



SURVEYORS' NOTES.

Give dates of visits also notes of any occurrence of which a record should be kept.

1925Oct. 21st" 27thNov. 3rd" 9th" 16th" 23rdDec. 1st" 3rd" 7th" 17th" 21st" 25th" 29th1926Jan. 7th" 14th" 19th" 22nd" 25th" 29thFeb. 3rd" 8th" 12th" 15th" 18th" 22nd" 25thMar. 3rd" 4th" 8th

Discussing plans with Builders

Tested rivets



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SURVEYORS' NOTES—Continued.

Visits contd.

1926

March 10th
 " 15th
 " 17th Checked anchors and cables.
 " 22nd
 " 24th
 " 30th
 April 2nd
 " 7th
 " 12th
 " 16th Examined internally all double bottom tanks.
 " 21st
 " 23rd
 " 29th Checked moulded depth. Examined peak tanks.
 May 3rd Tested Nos 1, 3, & 5 double bottom tanks.
 " 6th " " 2 & 4 " " ,
 " also fore peak tank.
 " 10th
 " 11th Tested aft peak tank also W.T. bulkheads.
 " 14th Vessel launched
 " 18th
 " 24th
 " 28th
 June 21st Checked freeboard.
 " 28th
 July 2nd
 " 8th
 " 22nd
 " 27th
 Aug. 10th
 " 17th

SURVEYORS' NOTES—Continued.

Visits contd.

Aug. 23rd
 Sept. 2nd
 " 7th Hose tested W.T. shell doors & hawse pipes.
 " 14th
 " 20th Hose tested deck, & tested hand pump.
 " 22nd
 " 30th Trial trip on Firth of Clyde.
 Skelmorlie measured mile.
 Tested steering gear and windlass.

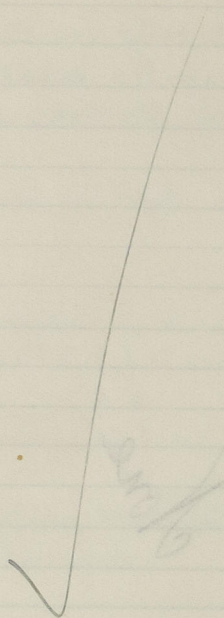


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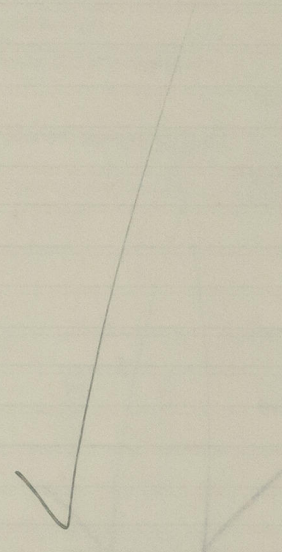
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REFRIGERATION—Continued.

State particular of arrangement, material, and source of refrigerating fluid.
 State nature, position, thickness of insulation.



REFRIGERATION—Continued.



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FREEBOARD PARTICULARS.

Registered Length	191'-1"	Breadth	32'-9"	Depth	10'-8"
Length on L.W.L.	190'-0"	Beam at Gunwale Amidships	32'-9"		
Moulded Depth as measured in Ship	12'-9"				
Round of Beam	8 1/4"	Rise of Floor	9"		
Sheer at Stem	42"	Sheer at Sternpost	26"		
" 1/2 from Stem	25"	" 1/2 from Sternpost	14"		

Particulars of Sheer in Decks which are not parallel to Freeboard Deck ✓

Fall in Sheer	✓	Thickness of Wood Deck	2 1/2"
Extent of Wood Deck	All fore and aft	Thickness of Ceiling	2" on 1 1/2" wood grounds
Thickness of Sparring	2"	Depth of Framing	5"
Drop in Tank level	✓	Modifications in D.B. affecting Coef. (see Sketch)	

Particulars of Erections (see Sketch)

Length	Length of Overhang (Recesses, &c.)	Height
Forecastle, Shelter Deck		7'-3"
Peep or R.Q.D.		

Bridge

Scantlings of Bulkheads of Erections

Openings in Bulkheads of Erections and Means of Closing same

Is the Engine and Boiler Opening covered by the Peep or R.Q.D. and enclosed by a strong Iron or Steel House? *yes*

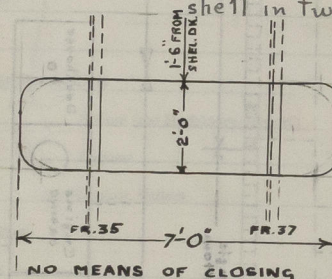
Give Number, Size, and Area of Freeing Ports in Wells *Open rails on Shelter Deck.*

FREEBOARD PARTICULARS—Continued.

Displacement in Salt Water	1330 Tons	Tons per inch	11.8 Tons
Tonnage under Deck	495.85		

Means of making Freeboard Deck watertight in erections where Frames pass through *Cement chocks.*Freeboard assigned by the Committee, as per letter issued by Secretary dated *9-6-26*From Top of Statutory Deck Line to Centre of Disc *1'-0 1/2"*Fresh Water Line above Centre of Disc *2 1/2"*Indian Summer " " *2"*Winter Line below Centre of Disc *1 1/2"*W.N.A. " " *Not engaged*Statutory Deck Line *1 1/4"* ins. above Top of Wood *Upper* Deck at SideFreeboard marks verified *21-6-26*

Freeboard as arranged above subject to:— *Tonnage opening being cut in shell in tween decks Port & Starboard.*

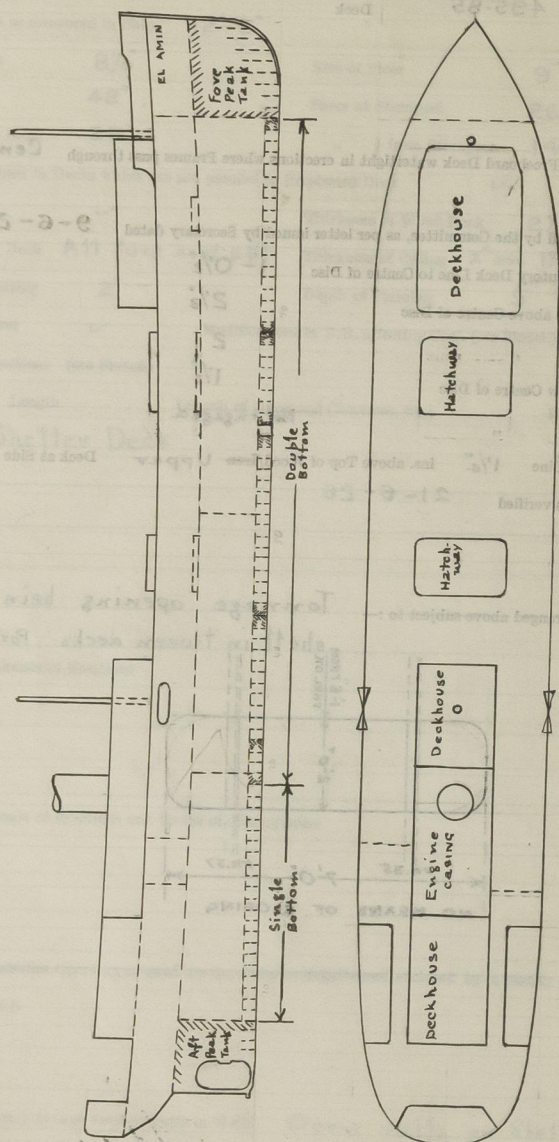


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FREEBOARD PARTICULARS—Continued.

Elevation and Plan Sketches showing Lengths and Arrangements of Erections, Length, Heights and variations of Double Bottom, Peak Tanks, Protection of Openings in Bulkhheads.



We have satisfied ourselves, from personal examination, that this Vessel has been built in accordance with the approved Plans and the Rule requirements, or their equivalent, that the materials used in the construction of the Hull and Equipment are in accordance with the Rules, and that the workmanship is in every respect satisfactory.

Cyril A. Townshend

Surveyors to the British Corporation for the
Survey and Registry of Shipping.

It is submitted that this Report be approved.

Chief Surveyor.

GLASGOW,

Amount of Classification Fee for Hull

- " Boilers (see Machinery Report)
- " Engines
- " Donkey Boilers

Freeboard Fees

Special Fees

Fees advised

Fees paid



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Total Fee

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COMMITTEE'S MINUTE.

We have examined the report of the Committee on the subject of the proposed amendment to the Constitution of the Hull and their equipment, that the materials used in the construction of the Hull and equipment are in accordance with the law and that the workmanship is in every respect satisfactory.

Approved by the Committee for the Class of *SS* on the *2nd November 1901*

Robert Murray
Secretary.



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