

29 JAN 1932

Port of Survey Birkenhead

Date of Survey Dec 29th 1931
+ subsequently

Name of Surveyor H. C. Murray

Particulars of Classification ~~100~~ 100 A1

Moulded Dimensions: Length 135.2' Breadth 23.0' Depth 10.5'

Moulded displacement at moulded draught = 85 per cent. of moulded depth Draught 12.0 1/2" Displacement 605 tons

Coefficient of fineness for use with Tables 663 68 LIMIT 85% = 526 tons.

Depth correction

(a) Where D is greater than Table depth
(D - Table depth) R = $(10.54 - 9.01) \times 1.04 = +1.59$

(b) Where D is less than Table depth (if allowed)
(Table depth - D) R =

Depth for Freeboard (D) = 10.54

If restricted by superstructures

Round of Beam correction

Moulded Breadth (B)	23.0
Standard Round of Beam = $\frac{B \times 12}{50}$	5.52
Ship's Round of Beam	6"
Difference	.48
Restricted to	
Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right)$	$= \frac{.48}{4} \times (1 - .5844) = -.05$

STURSES.

Standard Height of Superstructure 6.00 ✓

" " R.Q.D. 3.23 ✓

Deduction for complete superstructure 19.52 ✓

Percentage covered $\frac{S}{L} = 59.11$

" " $\frac{S_1}{L} = 58.44$ ✓

" " $\frac{E}{L} = 58.44$ ✓

Percentage from Table, Line A. 43.82 ✓
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. ✓
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required) ✓

Deduction = $19.52 \times .4382 = -8.55$ ✓

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed	49'-6"	49.50	3'-6"	✓	49.50
" overhang ...	8'-11"	8.92	7'-0"	✓	8.92
Bridge enclosed					
" overhang aft ...					
" overhang forward	19.66	19.66	8'-6"	✓	19.66
File enclosed	18'-0"	92	6'-6"	✓	92
" overhang ...	3'-6"				
Trunk aft ...	1.84				
" forward ...					
Tonnage opening aft ...					
" forward					
Total ...	79.92	79.00			79.00

Station	Standard Ordnate	S M	Product	Actual Ordnate	Effective Ordnate	S M	Product
A.P. ...	23.52	1	23.52	24.86 24.625	24.86	1	24.86
$\frac{1}{4}$ L from A.P. ...	10.47	4	41.88	9.49 9.49	9.49	4	37.96
$\frac{2}{4}$ L " ...	9.59	2	5.18	1.625	1.62	2	3.24
Amidships ...	-	4	-	0	-	4	-
$\frac{3}{4}$ L from F.P. ...	5.18	2	10.36	5	5.00	2	10.00
$\frac{1}{4}$ L " ...	20.94	4	83.76	19.25	19.25	4	77.00
F.P. ...	47.04	1	47.04	46	46.00	1	46.00
Total ...			211.74 ✓				199.06

$$\frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} = \text{DEFECTIVE } 92.8\%$$
$$\frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} = \text{DEFECTIVE.}$$

Length of enclosed superstructure forward of amidships = *NIL*

" " aft of " = .074

NOTE. Sheep apt increased by virtue of intact R.Q.D. having a height in excess of the standard.

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{8}{2L} \right) = \frac{12.68}{18} \times \left(.75 - \frac{.2955}{.4545} \right) = +.32 \checkmark$$

Correction = $\frac{18}{2L} \left(\frac{18}{2L} + \sqrt{\frac{18}{2L}} + .4545 \right)$
If limited on account of midship superstructure. BUT SHEER DEFECTIVE. If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

ridge addition for Winter North Atlantic Freeboard (if required) = 2.0

$$\text{Deduction} = \frac{\Delta}{40T} \text{ inches}$$

$$= 2.42 = 2\frac{1}{2}$$

Correction for coefficient $\frac{.68 + .68}{1.36}$

Depth Correction	1.59	-
Deduction for superstructures	-	8.55
Sheer correction	32	-
Round of Beam correction... ..	-	.05
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-

Summer Freeboard = 6.93


SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ Steel, Deck: 5' 1928 Tropical Fresh Water Freeboard

Tropical Fresh Water Line above Centre of Disc	...	3 4	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	2 1/2 ✓	Fresh Water	"
Tropical Line	"	2 3/4 ✓	Tropical	"
Winter Line	below	2 1/2 ✓	Winter	"
Winter North Atlantic Line	"	4 1/2 ✓	Winter North Atlantic	"

7" ✓ { 7" ✓
2" ✓ { 3" ✓
4½" ✓ { 4½" ✓
4½" ✓ { 5½" ✓
9½" ✓ { 8½" ✓
1½" ✓ { 10½" ✓

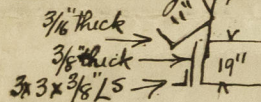
1906
FREEBOARDS.

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS											
Description of Hatchway	MAIN HATCH.							
Dimensions of Hatchway	45'-6" x 13'-6"							
COAMINGS	Height above Deck	36"							
	Thickness	{	Sides	45"							
			Ends	45"							
	Stiffeners	None							
	Brackets, Stays	None							
HATCH BEAMS	Number	8							
	Spacing	5'-0" 5'-6" forward space							
	Scantling and Sketch	plate 14" x 32 Centre 6" at ends Double Ls 3x3x42'							
											
	Bearing Surface	4 1/2"							
FORE AND AFTERS	Number								
	Spacing								
	Unsupported Lengths								
	Scantling* and Sketch	✓							
	Bearing Surface								
HATCH COVERS	Material	WP							
	Thickness	2 1/2"							
	How fitted	F + A							
	Bearing Surface	3"							
Spacing of Cleats	24"							
Number of Tarpaulins	2							
<p>*Are wood fore and afters steel shod at all bearing surfaces? ✓</p> <p>Are battens and wedges efficient and in good condition? ✓</p> <p>Are tarpaulins in good condition and in accordance with rule requirements? ✓</p> <p>Are lashings provided in accordance with rule requirements? ✓</p>											

Particulars of fiddley, funnel and ventilator coamings:— Fiddley top 6'-6" above RQD. Fiddley gratings fitted with steel hinged covers. ✓
 E.R. Skylights made of wood 2 1/2" thick and have four wood hinged flaps 1 1/2" thick. 2 Stokehold Ventilators 7'-6" Coamings 1/8" plating
 (no stays) 15 1/2" dia The Gallery skylight is made of wood 2" thick with two wood hinged flaps 1 1/2" thick.

Funnel Coaming as per sketch:—



Bunker Hatch:— 12'-0" x 7'-4". Coaming 6 1/2" BA 7/16" thick
 Cleats spaced 3'-6" Wood Hatch Covers 2 1/2" thick fitted fore + aft. bearing 2"
 Fore Bkd Stiffeners 6 x 3 x 7/16" Ls spaced 2'-4". One good tarpaulin fitted.

Particulars of Flush Bunker Scuttles:—

Two Scuttles on RQ Deck. Cast Iron fitted with bayonet joints.
 No chains.

P Side scuttle removed & plated over. See Lph on (cont) dated 2-9-54

Particulars of Companionways:—

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—

1 in Fore Well, forward of Hatch, starboard side 10" dia, coaming 18" high x 3/8" thick
 1 in Fore Well, aft of Hatch, midships, 10" dia, coaming 37" high from deck 3/8" thick ✓
 2 on Fore Deck 6" dia coaming 24" high 1/4" thick.
 Wood plugs & canvas covers are fitted ~~except~~ ^{all} to the vents on the Forecastle deck.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

1 Forward end of Fore Deck to F.P. Tank 3" dia 6 1/2" high 1/4" thick.
 1 on top of A Peak hatch 2" dia 9" high 1/4" thick
 Heights given are to the lip of the pipe
 Air Pipes can be closed with canvas covers. ✓

Particulars of Gangway Cargo and Coaling Ports:—



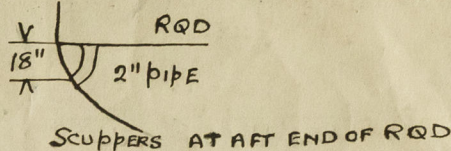
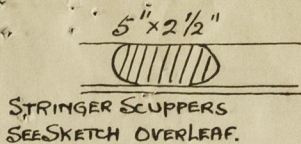
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Particulars of Scuppers and Sanitary Discharge Pipes —

SPACE	SIZE	TYPE & POSITION
CREWS. WC	P 4"	CLACK VALVE ABOVE WELLDECK.
WC AFT	S 4"	CLACK VALVE 1-8" below RQD IN ENGINE ROOM



Particulars of Side Scuttles:

None

Particulars of Guard Rails:—

Guard rails around Forecastle 3'-0" high 2 rails, Stanchions spaced 4'-4"
The two forward lengths each side are portable.

Particulars of Gangways, Lifelines, etc.:—

The crew are housed in the Forecastle, entering by a strong steel door in the forecastle Bulkhead and two inner wooden doors.
~~There are no life lines fitted at present to enable the crew to reach their quarters~~
Suitable provision made for rigging lifelines which are available for use in any part of the ship which might have to be used by the crew in the regular working of the ship.

Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well RQD...	49'-5" 59'-6"	2'-11"	2'-0" x 1'-1 1/2" 2'-0" x 1'-2 1/2"	3 2	12.36 4.8 sq	11.45 sq
Forward Well ...	55'-3" ✓	3'-5"	2'-9" x 1'-5 1/2"	3	12.375 9 sq	12.03 12 sq
State position of each freeing port (F. and A. position and height above deck edge) { After Well: — RQD. 28'-0" x 4'-8" aft Bridge Bulkhead (9" from deck.) Forward Well: — Bridge front 6'-6" x 16'-6" x 14'-4" (9" from deck.) State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such: — Shutters with means of fastening. Additional area where sheer is less than standard.						

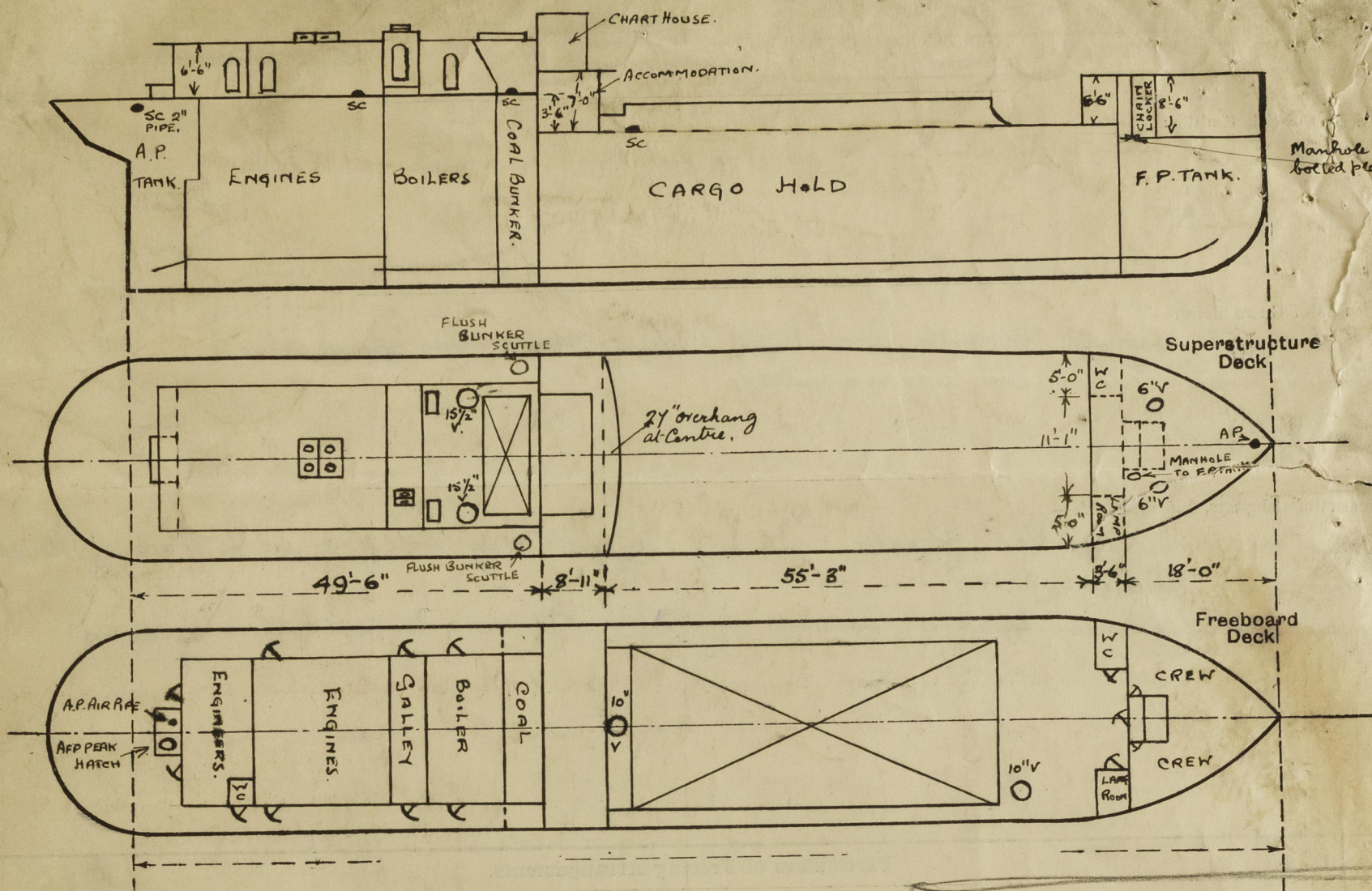
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ...	✓							
Raised Quarter Deck Bulkhead ...		Wood cased	No facilities for checking			✓	✓	3'-6"
Bridge, After Bulkhead ...	✓				✓	✓	✓	✓
Bridge, Forward Bulkhead ...	30	24	Wood cased	2'-6"	Brackets at top & bottom.	✓	✓	7'-0"
Forecastle Bulkhead ...	26	26	3/2" x 3" x 30	2'-0"	Brackets top & bottom	3'-10" x 21 1/2"	19"	6'-6" & 8'-6"
Trunk, Aft ...	✓							
Trunk, Forward ...	✓							
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	30	26	3 x 2 1/2 x 30	3'-4"	Brackets at top	3'-10" x 21 1/2"	23"	6'-6"
Exposed Machinery Casings on Super-structure Decks ...	✓							
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	✓							
Deckhouses on Flush Deck Ships ...	✓							

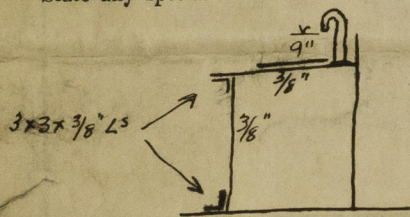
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	✓
Raised Quarter Deck Bulkhead ...	✓
Bridge, After Bulkhead ...	✓
Bridge, Forward Bulkhead ...	✓
Forecastle Bulkhead ...	Steel hinged door Manipulated from either side
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	Steel hinged doors Manipulated from either side
Exposed Machinery Casings on Super-structure Decks ...	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	✓
Deckhouses on Flush Deck Ships ...	✓

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



State any special features in the construction of the ship:—



AFT PEAK HATCH
3'-0" wide 2'-6" F&A.
15 1/2" high. Manhole 16" x 12"
3/4" studs spaced 4" apart
3/8" cover. 2" air pipe 9" high

Forecastle:

$$\frac{3.5 \times 5.0 \times 2}{21.08} = 1.66 \checkmark$$

$$\frac{\text{Enclosed} = 18.00}{19.66} \checkmark$$

$$\frac{21.5 - 19.66}{2} = .92$$

$$\text{Total allowed} = 20.58.$$

Builder's name and yard number

Names of sister ships

Owners

Fee £ 5 : 2 : 0

Received by me



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