

3 JUN 1932

Rpt. C.11.

Index. No. 21945
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Mch. No. 7582.

Computation of Freeboard for Steamer, ~~Sailing Ship, Tug~~

having RAISED QUARTER DECK, BRIDGE & FORECASTLE.

Port of Survey MANCHESTER

Kylecroft

(Type of Superstructures.)

Date of Survey JUNE 1st 1932.

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

"ANGLESEY COAST"

BRITISH

132859

863

1911-12 mod.

Name of Surveyor A.R. Gibbs

Moulded Dimensions: Length

Breadth

Depth

14.75.

Moulded displacement at moulded draught = 85 per cent. of moulded depth

1511

tons

Coefficient of fineness for use with Tables

696

Particulars of Classification + 100 A1.

20 20.3-4.34.

Depth for Freeboard (D)

Moulded depth ... 14.75.

Stringer plate04

Sheathing on exposed deck

$$T \left(\frac{L-S}{L} \right) =$$

Depth for Freeboard (D) =

14.79.

Depth correction

(a) Where D is greater than Table depth

(D-Table depth) R =

$$(14.79 - 13.26) 1.529 =$$

$$1.53 \times 1.529 = 2.34$$

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

(Table depth-D) R =

If restricted by superstructures

Round of Beam correction

Moulded Breadth (B) 30.5

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} = 7.32$$

$$\text{Ship's Round of Beam} = 7.32$$

$$\text{Difference} = 7.32 - 7.32 = 0$$

Restricted to

$$\text{Correction} = \frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{0^2}{4} \times \left(1 - \frac{S_1}{L} \right) = 0$$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	✓				
" overhang ...	✓				
" R.Q.D. enclosed ...	114.66	114.66	4'0"		114.66
" overhang ...	✓				
Bridge enclosed ...	9.33	9.33	4'0"		9.33
" overhang aft ...	✓				
" overhang forward ...	✓ 26.63	26.63	4'6"		26.63
F'cle enclosed ...	34.00	34.00	3'6"		34.00
" overhang ...	5.25	3.68			3.68
Trunk aft ...	✓				
" forward ...	✓				
Tonnage opening aft ...	✓				
" " forward ...	✓				
Total ...	157.99	154.30			154.30

Standard Height of Superstructure 6.0.

" " R.Q.D. 3.659.

Deduction for complete superstructure 25.88

Percentage covered $\frac{S}{L} = 79.48$ " " $\frac{S_1}{L} = 77.62$ " " $\frac{E}{L} = 77.62$

Percentage from Table, Line A. 72.37.

(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 = 18.73

SHEER CORRECTION.

Standard H. R.Q.D. 43.9"

actual 48.6"

4.1"

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	29.88	1		29.88	42"	44.1 = 42.00	1		46.10
$\frac{1}{2}$ L from A.P. ...	13.30	4		53.20	18"	18.15	4		82.08
$\frac{2}{3}$ L " ...	3.29	2		6.58	4"	4.53	2		10.14
Amidships ...	✓	4		✓	0	✓	4		✓
$\frac{2}{3}$ L from F.P. ...	6.58	2		13.16	6"	8.27	2		16.54
$\frac{1}{2}$ L " ...	26.60	4		106.40	33"	33.14	4		132.56
F.P. ...	59.76	1		59.76	75"	75.00	1		75.00
Total ...				268.98					362.32

Mean actual sheer aft = Excess ✓

Mean standard sheer aft

Mean actual sheer forward = Excess ✓

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = 12L

" " aft of " = 5L.

Correction = $\frac{\text{Difference between sums of products}}{18}$

$$\left(\frac{75 - S}{2L} \right) =$$

$$\left(\frac{75 - 39.73}{2L} \right) = -1.83$$

If limited on account of midship superstructure. ✓

If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 18.79.

Summer freeboard = 4.42

Moulded draught (d) = 14.37

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 3.59. 3 1/2

Addition for Winter North Atlantic Freeboard (if required =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$$\Delta = 18.04$$

Tons per inch immersion at summer load water line

$$T = 11.95$$

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

$$= 3.77$$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$$\frac{696 + 68}{1.36} = \frac{1.376}{1.36}$$

Depth Correction ... 2.34.

Deduction for superstructures ... 18.73.

Sheer correction ... 1.83.

Round of Beam correction ... 01.

Correction for Thickness of Deck amidships ... 48.00

Other corrections, scantlings, etc. R.Q.D.

50.34 + 29.77

Summer Freeboard = 58.94

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc ... 6 3/4

Fresh Water Line " " 3 3/4

Tropical Line " " 3

Winter Line below " " 3 1/2

Winter North Atlantic Line " " 5 1/2

Tropical Fresh Water Freeboard ... 4 - 5

Fresh Water " " 4 - 1 1/4

Tropical " " 4 - 2

Winter " " 4 - 8 1/2

Winter North Atlantic " " 4 - 10 1/2

18 OCT 1932

MARKING FORM

MARKING FORM

MARKING FORM

28 APR 1933

MARKING FORM

18 DEC 1932

RECEIVED 15/8/36

RECEIVED

RECEIVED

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS										
Description of Hatchway			FORWARD HATCH	AFTER HATCH	CROSS HATCH					
Dimensions of Hatchway			40'9" x 14'6"	41'3" x 14'6"	5'8" x 14'6"					
COAMINGS	Height above Deck		39"	39"	39"					
	Thickness	Sides	50"	50"	50"					
		Ends	40"	40"	40"					
	Stiffeners		NONE	NONE	NONE					
	Brackets, Stays		NONE	NONE	NONE					
HATCH BEAMS	Number		6	4						
	Spacing		5'10"	5'2"						
	Scantling and Sketch		4 1/2" x 3" x 40'	4 1/2" x 3" x 40'	NONE					
			24" x 36"	24" x 34"						
	Bearing Surface		3	3						
FORE AND AFTERS	Number									
	Spacing									
	Unsupported Lengths									
	Scantling and Sketch		NO FORE & AFTERS FITTED							
	Bearing Surface									
HATCH COVERS	Material		N.P.	N.P.	N.P.					
	Thickness		3"	3"	3"					
	How fitted		F.E.A.	F.E.A.	F.E.A.					
	Bearing Surface		2" to 3"	2" to 3"	2" to 3"					
Spacing of Cleats			22" to 30"	22" to 30"	24"					
Number of Tarpaulins			3	3	3					
<p>*Are wood fore and afters steel shod at all bearing surfaces? <input checked="" type="checkbox"/></p> <p>Are battens and wedges efficient and in good condition? <input checked="" type="checkbox"/> YES</p> <p>Are tarpaulins in good condition and in accordance with rule requirements? <input checked="" type="checkbox"/> YES</p> <p>Are lashings provided in accordance with rule requirements? <input checked="" type="checkbox"/> LASHINGS ARE PROVIDED ON HATCH COAMINGS</p>										

Particulars of fiddle, funnel and ventilator coamings:—

Stokehold Gratings covered by Strong Angled Steel Covers
 Funnel and Fidler Vents. are in efficient condition
 E. R. Skylight of steel strongly constructed

Particulars of Flush Bunker Scuttles:—

NONE

Particulars of Companionways:—

NONE

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

Fore Head Ventilator to Fore Head Space 9" dia. x 14" coaming x 30"
 Chest 4" x 10" x 30"
 Raised Quarter Deck Ventilator to Holes 10" dia. x 30" coaming x 35"
 10" x 24" x 35"
 Forward Well Ventilator to Holes 10" dia. x 39" coaming x 35"
 No. 12 Mushroom vents. 8" dia x 14" coaming.

The ventilators are strongly constructed
 The wood plugs and canvas covers are not complete
 provided

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

Fore Head Head Pipe to Fore Head Tank 3 1/2" dia. x 3 1/2" high to mouth 10" to bend
 Forward Well Filling pipe to No. 1 D.P. Tank 3 1/2" high to mouth 10" to bend
 1 on pipe 36"
 Raised Quarter Deck 2 on pipes to No. 2 D.P. Tanks 4" dia. x 22" to mouth 24" to bend
 1 on pipe 3" x 82"
 After Head 30" * sniffling hole drilled

No Sniffling Holes are drilled
 The means of closing provides
 Canvas Covers

Particulars of Gangway Cargo and Coaling Ports:—

NONE



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Particulars of Scuppers and Sanitary Discharge Pipes —

1 W.C. discharge on Port side amidships led overboard 15' below ^{Freeboard} D^o with brass Stem Valve
 1 Fore Peak Tank overflow pipe led overboard 4'0" below ^{Freeboard} D^o with brass Stem Valve

Particulars of Side Scuttles:

Side Scuttles to Fore Peak Space below Freeboard Deck are of strong construction and are fitted with permanent hinged deadlights.

Side Scuttles to Crew Accommodation in Forecastle on Freeboard D^o are not fitted with deadlights.

Particulars of Guard Rails:—

2 Iron Guard Rails round Forecastle D^o 3'0" high Stanchions 4'9" apart
 Strong Steel Bulwarks are fitted in Forewell 4'6" high and supported by 5x3 T.bars about 5'0" apart
 " " " " on R. Q. Deck 3'3" " "

Particulars of Gangways, Lifelines, etc.:—

~~None~~

Lifelines provided in forward well

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 ...	114.66	3'3"	8'3" x 1'6"	2	23.4	
Forward Well ...	40.8	4'6"	3 at 3'6" x 1'8" 2 at 3'6" x 1'9"	3	13.5	22.93
					10.22	10.58

State position of each freeing port (F. and A. position and height above deck edge)
 After Well:— From Bridge Deck Bulkhead 13'5" 36'6" 40'9" - 4' ABOVE D^o EDGE
 Forward Well:— 8'4" 24'2" - 10 "

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—
 After Well:— 2 for ports are fitted with hinged shutters - the 4 for ports have horizontal bars - 3 each port
 Forward Well:— 2 for ports are fitted with hinged shutters - the 2 forward ports have horizontal bars

Additional area where sheer is less than standard.

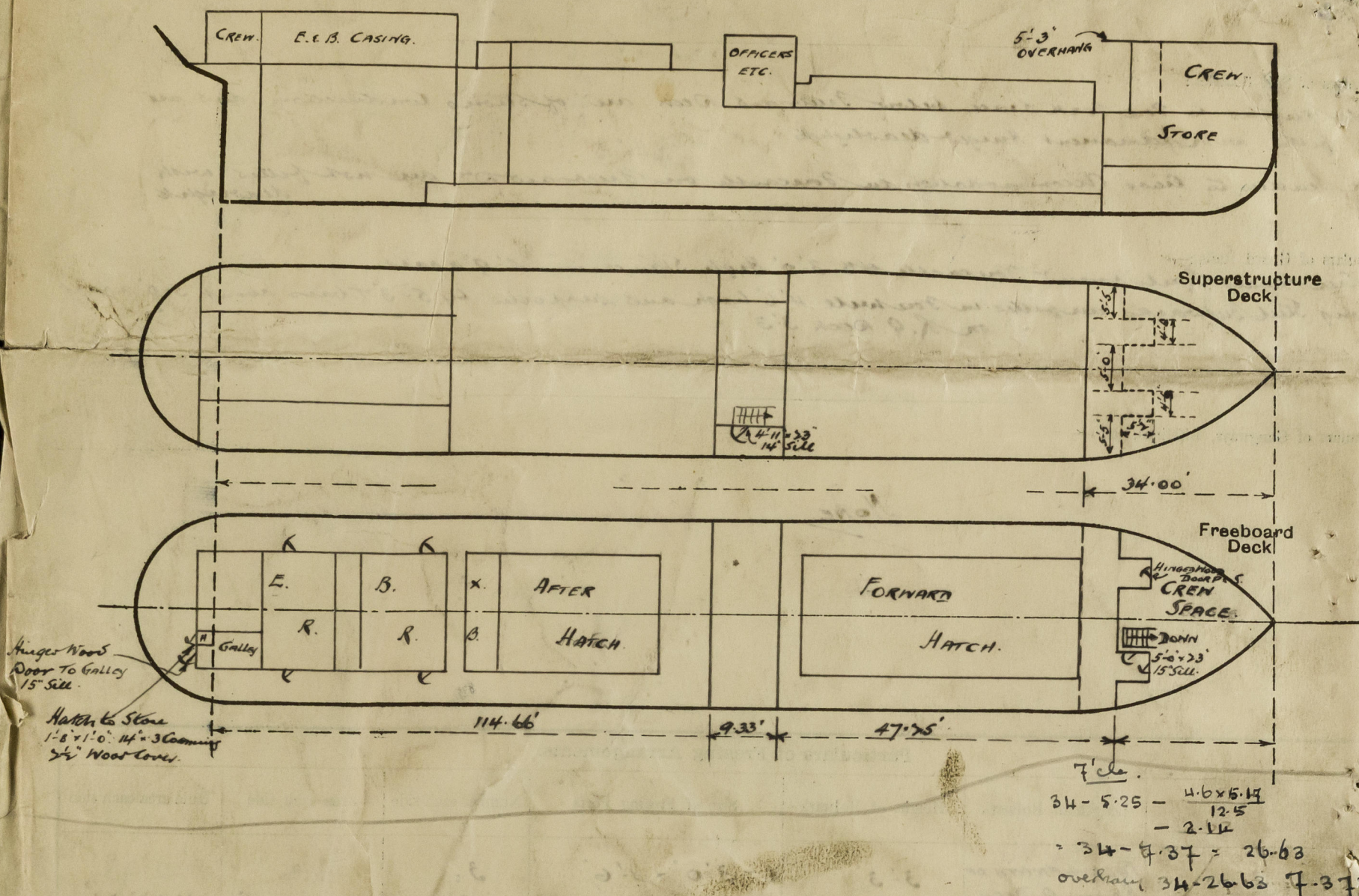
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ...				✓				
Raised Quarter Deck Bulkhead ...		30	R. Q. D ^o bulkhead stiffened by 3 large diaphragms made with 4x3 double Ls on fore side			NONE	✓	4'0"
Bridge, After Bulkhead ...	✓	30	3x3x38BQ 3x3x20L	24"	None	NONE	✓	
Bridge, Forward Bulkhead ...	34	30	4x32x3x38Z	24"		NONE	✓	4'0 1/2"
Forecastle Bulkhead ...	✓	25	2 1/2 x 2 1/2 x 25	30"	NONE	4'10" x 24"	14"	4'6 1/2"
Trunk, Aft ...				✓				
Trunk, Forward ...				✓				
Exposed Machinery Casings on Raised Quarter Decks ...	30	28	Bulkhead plating Ranges 2x	36 to 48	Brackets at Top	4'11" x 24"	18 1/2"	4'0"
Exposed Machinery Casings on Superstructure 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	INTACT ✓
Bridge, After Bulkhead	INTACT ✓
Bridge, Forward Bulkhead	INTACT ✓
Forecastle Bulkhead	Hinged Wood door operates from both sides leading to Space below Freeboard D ^o ✓
Exposed Machinery Casings on Raised Quarter Decks	Hinged Steel doors operate from both sides ✓
Exposed Machinery Casings on Superstructure 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 shewn on the following sketches:—



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

Vessel surveyed in dry dock: The following ~~will~~ be done at this time towards the Special Survey 2nd No 2 now due:—

- Roaming
- Bottom & Rudder.
- Chain Cables
- Chain Hooks
- Double Bottom Tanks & Tanks water-tight
- Steering gear.
- Windlass
- Decks
- Masts Spars, & Rigging
- Hatchways & Supports

Builder's name and yard number. *Kublin Dockyard Co. No. 44*

Names of sister ships

Owners *Boat Lines Ltd.*

Fee £ *6* : *16* : *0*.

Received by me



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