

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

7 OCT 1932

Computation of Freeboard for Steamer, ~~Sailing Ship~~, Tanker
 Raised Quarter Deck, Bridge & Forecastle.
 (Type of Superstructures.)

Port of Survey *Goole*

Date of Survey *5th October 1932*

Name of Surveyor *E. Knoffart*

Particulars of Classification *F 100 A1*
S.S. from No. 3-11, 22
S.S. from No. 2-30

Ship's Name *"Yokefleet"* Nationality and Port of Registry *Br. Goole* Official Number *129515* Gross Tonnage *822* Date of Build *1910*
9mo

Moulded Dimensions: Length *129.80* Breadth *30'* Depth *14.35*
1554 tons

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

Efficient of fineness for use with Tables *449*

Depth for Freeboard (D) *14.35*

Depth correction
 (a) Where D is greater than Table depth
 (D-Table depth) R = *(14.29-13.32) 1.534 = + 1.49*
 (b) Where D is less than Table depth (if allowed)
 (Table depth-D) R =

Round of Beam correction
 Moulded Breadth (B) *30'-0"*
 Standard Round of Beam = $\frac{B \times 12}{50} = \frac{30 \times 12}{50} = 7.20$
 Ship's Round of Beam = *7.20*
 Difference *0.05 inches*
 Restricted to
 Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) = \frac{0.05}{4} \times (1 - \frac{30}{129.80}) = 0.01$

Depth for Freeboard (D) = *14.29*

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
enclosed ...						Standard Height of Superstructure <i>6.0'</i>
overhang ...						" " R.Q.D. <i>3.666'</i>
enclosed ...	<i>116'</i>	<i>116.00</i>	<i>4' 3"</i>	-	<i>116.00</i>	Deduction for complete superstructure <i>25.98</i>
overhang ...	<i>11'</i>	<i>11.00</i>	<i>7' 0"</i>	-	<i>11.00</i>	Percentage covered $\frac{S}{L} = \frac{80.45}{129.80} = 0.62$
enclosed ...			<i>+22" Table</i>			" " $\frac{S_1}{L} = \frac{46.44}{129.80} = 0.36$
overhang aft ...						" " $\frac{E}{L} = \frac{46.44}{129.80} = 0.36$
overhang forward ...	<i>19.98</i>	<i>19.16</i>	<i>6' 9"</i>	-	<i>19.16</i>	Percentage from Table, Line A. <i>41.29</i>
closed ...	<i>34.33</i>	<i>4.14</i>			<i>4.14</i>	(corrected for absence of forecastle (if required))
overhang ...	<i>14.35</i>					Percentage from Table, Line B.
forward ...						(corrected for absence of forecastle (if required))
overhang aft ...						Interpolation for bridge less than 2L (if required)
forward ...						Deduction = <i>25.98 x 41.29 = 10.72</i>
Total ...	<i>161.33</i>	<i>153.33</i>			<i>153.33</i>	

SHEER CORRECTION.

	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product	
A.P.	<i>29.98</i>	1	<i>29.98</i>	<i>24.00</i>	<i>24.00</i>	1	<i>29.98</i>	Mean actual sheer aft = <i>mean</i>
	<i>13.34</i>	4	<i>53.36</i>	<i>10.50</i>	<i>10.66</i>	4	<i>53.36</i>	Mean actual sheer forward = <i>defiant</i>
	<i>3.30</i>	2	<i>6.60</i>	<i>2.50</i>	<i>2.66</i>	2	<i>6.60</i>	Mean standard sheer forward
		4				4		Length of enclosed superstructure forward of amidships = <i>7.10</i>
F.P.	<i>6.00</i>	2	<i>12.00</i>	<i>6.50</i>	<i>6.40</i>	2	<i>12.80</i>	" " aft of " = <i>7.10</i>
	<i>26.68</i>	4	<i>106.72</i>	<i>25.75</i>	<i>25.64</i>	4	<i>102.68</i>	
	<i>59.96</i>	1	<i>59.96</i>	<i>57.00</i>	<i>57.00</i>	1	<i>57.00</i>	
Total			<i>269.82</i>				<i>262.42</i>	

Correction = $\frac{\text{Difference between sums of products}}{18} = \frac{7.40}{18} = 0.41$

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

Correction for Tropical Freeboard.

Correction for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = *18.54*

Summer freeboard = *4.85*

Moulded draught (d) = *13.69*

Correction for Tropical freeboard and addition for winter freeboard = $\frac{d}{4}$ inches = *3.42 = 3 1/2*

Winter North Atlantic Freeboard (if required) = *5 1/2*

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Tons per inch immersion at summer load water line

T = *not available*

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

$\frac{9}{4} = 2 1/4$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{1.49 + 68}{1.36} = 1.429$

Depth Correction ... *1.49*

Deduction for superstructures ... *18.52*

Sheer correction ... *1.4*

Round of Beam correction ... *0.02*

Correction for Thickness of Deck amidships ... *51.00*

Other corrections, scantlings, etc. ...

Summer Freeboard = *58.33*

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

Tropical Fresh Water Line above Centre of Disc ... <i>4'</i>	Tropical Fresh Water Freeboard ... <i>4' 10 1/4"</i>
Fresh Water Line " " ... <i>3 1/2"</i>	Fresh Water " " ... <i>4' 3 1/4"</i>
Tropical Line " " ... <i>3 1/2"</i>	Tropical " " ... <i>4' 6 3/4"</i>
Winter Line below " " ... <i>3 1/2"</i>	Winter " " ... <i>5' 1 3/4"</i>
Winter North Atlantic Line " " ... <i>5 1/2"</i>	Winter North Atlantic " " ... <i>5' 3 3/4"</i>

170 OCT 1932

MARKING FORM
 RECEIVED 19 OCT 1932
 RECEIVED 1935

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway			No 1 on fore well	No 2 on R.O.D.	Bunker Hatch on R.O.D.	Fore Hold Escape Hatch beneath open H. case	Aft Hold Escape Hatch on R.O.D.		
Dimensions of Hatchway			37'1" X 17'11"	36' X 17'11"	8'5" X 17'	3'11" X 12'	2'6" X 2'		
COAMINGS	{	Height above Deck	36"	30"	30"	30"	25"		
		Thicknes	5	5	32	34	32		
		Sides	45	45	32	34	32		
		Ends	45	45	32	34	32		
COAMINGS	{	Stiffeners	none	none	none	none	none		
		Brackets, Stays	3 stays	3 stays	none	none	none		
HATCH BEAMS	{	Number	3	3	1	none	none		
		Spacing	even	even	middle	none	none		
		Scantling and Sketch							
		Bearing Surface	4"	4"	3" half round.	4"			
FORE AND AFTERS	{	Number	3	3	none	none	none		
		Spacing	even	even					
		Unsupported Lengths	9'2" x 9'3"	8'9" x 9'2"					
		Scantling* and Sketch							
HATCH COVERS	{	Material	N. Wood	Same as No 1	N. Wood	N. Wood	N. Wood		
		Thickness	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"		
		How fitted	Athwart	No 1	2"	1 5/8"	2"		
		Bearing Surface	2" x 3"						
Spacing of Cleats			23"	24"	22"	24"	18"		
Number of Tarpaulins			2	2	2	2	1		
<p>*Are wood fore and afters steel shod at all bearing surfaces? Yes - all fore & afters to be steel shod at bearing surfaces.</p> <p>Are battens and wedges efficient and in good condition? Yes</p> <p>Are tarpaulins in good condition and in accordance with rule requirements? Yes</p> <p>Are lashings provided in accordance with rule requirements? Yes</p>									

Particulars of fiddley, funnel and ventilator coamings :—

Particulars of hatch, funnel and ventilator coverings:—
Hatch gratings covered by strong steel hinged covers.
Hatch & funnel seats & coverings in good condition.
E.R. Skylight of steel, fitted with wooden lids - hinged - substantial construction.

Particulars of Flush Bunker Scuttles :—

None. -

Particulars of Companionways:— 1 Steel companionway 3'6" x 2'9" x 6'9" on Treeboard Deck, beneath Forecastle Deck, led to Euc Upper Peak Crew Space. Fitted with wood doors in vertical halves. Hinged 1 $\frac{3}{4}$ " thick; spring lock opening both sides. Sill 10"— 1 Wooden Companionway, 3'3" x 2'6" x 7' within Steel Deck House on Bridge Deck led to Euc Bridge Space Accom. Hinged wood door 4'6" x 1'10"; sill 17" spring lock opening both sides.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :-				
2 Vents	on Forecassell Deck	8" dia	X 20" X 3"	led to Upper Peak Crew Space.
1 "	" "	15 "	X 24" X 3"	Fore Hold Space.
1 "	" "	12 "	X 36" X 3"	" "
2 "	Fore Well	6 "	X 24" X 3"	Enc. Bridge "
1 "	Bridge	6 "	X 6 "	" "
2 Vents	" R. Q.	12 "	X 30" X 3"	aft Hold "

Temporary closing appliances to be ~~are~~ produced ~~known~~

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—					
1	Air pipe on	Forecastle Deck	3 1/2" dia x	13 1/2" high	led to F.P. Tank
1	"	"	3 "	x 7 "	" " No 1 Stb "
2	"	"	3 "	x 12 1/2 "	" " No 2 " "
1	"	"	3 "	x 12 1/2 "	" " No 3 " "
1	"	"	4 "	x 13 1/2 "	" " Aft Peak "

} ~~no plugs~~
 or
~~sealing holes~~
 temporary closing
 appliances are
 provided

Particulars of Gangway Cargo and Coaling Ports:—	
1	Gangway Cargo Port
1	Gangway Coaling Port

Particulars of Gangway Cargo and Coaling Ports :—

bone. ✓

Particulars of Scuppers and Sanitary Discharge Pipes :—

Particulars of Scuppers and Sanitary Discharge Pipes:—

2	Scuppers each side of Fore Well Deck,	6" x 3" in Gunwall bar.
3	" " " " R.Q.D.	6" x 3" " " " "

Sanitary Discharges

Sanitary Discharges.

(1) " pipe from Freecastle Accom. discharging above Tr. Deck - no non return valve or trap ✓
 (1) " " " Exc bridge Space " " " " - non return valve at S.S. ✓
 (1) " " " Incl casing " " 3' approx below R.Q.D. " " " " " - no trap.

Particulars of Side Scuttles:—

Particulars of Side Scuttles:—

Ind. upper Peak Crew Space fitted with side scuttles and hinged deadlights.
(Deadlights to be made workable. ✓)

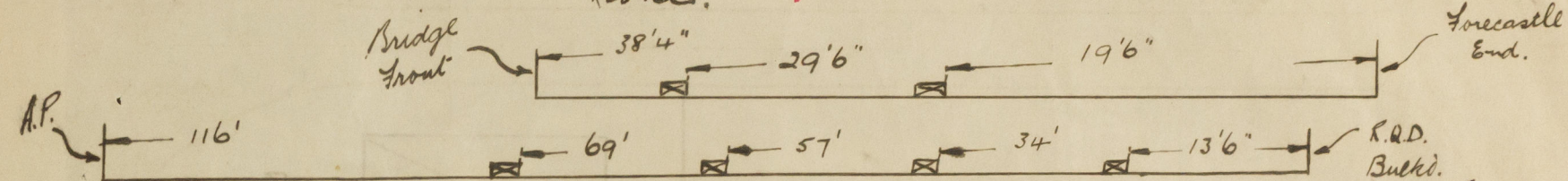
Particulars of Guard Rails :—

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Forecastle Deck:	2 chains in portable stanchions	3' high	4'3" apart.	✓
Fore well "	Steel bulwarks	4' high,	efficiently stayed.	-
Bridge "	"	"	3'3" " " "	✓
R. & Q. "	"	"	3' " " "	-

Particulars of Gangways, Lifelines, etc.:—

Suitable provision is made for ageing lifelines



Sketch
showing position
of Freeing Ports

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 <i>R.Q.D.</i> ...	<i>116'</i>	<i>3'</i>	<i>3'0" x 1'4"</i> <i>2 1 1/2" x 1'4"</i>	<i>6</i> <i>4</i>	<i>24</i> <i>42.57 sq ft</i>	<i>23.25 sq ft</i>
Forward Well ...	<i>38'4"</i>	<i>4'</i>	<i>3'4 1/2" x 1'6"</i>	<i>2</i>	<i>10.42 sq ft</i>	<i>10.33 sq ft</i>
State position of each freeing port ... } <i>After Well — R.Q.D. 7" 10 1/2" } see sketch above.</i> (F. and A. position and height above deck edge) } Forward Well:— State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— <i>Swivel shutters. ✓</i> Additional area where sheer is less than standard.						

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Deck Bulkhead								
Exposed Quarter Deck Bulkhead } ...	.3"	.3"	not accessible			none		9'9" and 2'9"
Edge, After Bulkhead ...								
Edge, Forward Bulkhead ...	.35"	.52"	SA 6"x3"x4.5"	26"	Brack. L x b.	none		7'
Forecastle Bulkhead ...	none							
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Fore- board or Raised Quarter Decks ...	.3"	.3"	2 1/2" x 2 1/2" x 3"	27"	Brack @ tops	(5) 4'6" x 2'	18"	6'6"
Exposed Machinery Casings on Super- structure Decks								
Machinery Casings within Superstruc- tures 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).	
Deep Bulkhead	
Raised Quarter Deck Bulkhead	} no openings ✓
Ridge, After Bulkhead	
Bridge, Forward Bulkhead	no openings ✓
Forecastle Bulkhead	none.
Exposed Machinery Casings on Deck	(5) Hinged steel doors, in horizontal halves, opening one side only.
Exposed Machinery Casings on Superstructure Decks	
Machinery Casings within Superstructures, not fitted with Class F Closing Appliances	
Dockhouses on Finish Deck Ships	

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



bone

This vessel examined and measured ^{afloat} for "Freeboard" purposes only.
Other Special Survey work carried out at this time.

OUT

Mackie & Thomson Ltd. Glasgow.

Owners

Quise S.S. Co. Ltd.

Fee £

6: 16: 0

Received by me

April