

Rpt. C.11 (Comp.).

Preliminary Report

Index. No. 35851  
(For London Office only).

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>Blythwood Shipbuilding Co. Ltd.</i> <i>Yard. N° 54</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey <i>Glasgow</i>
Moulded Dimensions: Length <i>461.0 CR of Stock</i> <i>460.0 (BP)</i> Breadth <i>59.0</i> Depth <i>34.0</i>					Date of Survey <i>✓</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature <i>R. Dunneville</i>
Coefficient of fineness for use with Tables <i>.79 as given by Builders</i>					Particulars of Classification <i>+100A1</i> <i>"Carrying petroleum in bulk"</i> <i>(Contemplated).</i>

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... <i>34.0</i>	(a) Where D is greater than Table depth (D - Table depth) R = <i>(34.07 - 30.73) 3 = +10.02</i>	Moulded Breadth (B) <i>59.0</i>
Stringer plate <i>0.80</i>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = <i>✓</i>	Standard Round of Beam = $\frac{B \times 12}{50} =$ <i>14.16</i>
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) = NIL$	If restricted by superstructures <i>✓</i>	Ship's Round of Beam = <i>14.75</i>
Depth for Freeboard (D) = <i>34.07</i>		Difference <i>Excess</i> <i>.59</i>
		Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <i>.59</i> <i>(.58)</i> <i>- .09</i>

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed <i>Equival.</i>	<i>93.15</i>	<i>96.21</i>	<i>7'-6"</i>		<i>96.21</i>
" overhang ...	<i>96.21</i>				
R.Q.D. enclosed					
" overhang	<i>47.29</i>	<i>47.29</i>	<i>7'-6"</i>		<i>47.29</i>
Bridge enclosed <i>Equival.</i>	<i>44.62</i>	<i>47.29</i>	<i>7'-6"</i>		<i>47.29</i>
" overhang aft	<i>2.5</i>	<i>1.87</i>			<i>1.87</i>
" overhang forward	<i>2.5</i>	<i>1.87</i>			<i>1.87</i>
Fore enclosed	<i>48.04</i>	<i>48.04</i>	<i>7'-6"</i>		<i>48.04</i>
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	<i>194.54</i>	<i>193.66</i>			<i>193.66</i>

Standard Height of Superstructure	<i>7'-6"</i>
" " R.Q.D.	<i>✓</i>
Deduction for complete superstructure	<i>42"</i>
Percentage covered $\frac{S}{L} =$	<i>42.20</i>
" $\frac{S_1}{L} =$	<i>41.95</i>
" $\frac{E}{L} =$	<i>41.95</i>
Percentage from Table, Line A. Tanker	<i>33.00</i>
(corrected for absence of forecastle (if required))	<i>32.95</i>
Percentage from Table, Line B.	<i>✓</i>
(corrected for absence of forecastle (if required))	
Interpolation for bridge less than .2L (if required)	
Deduction = $42" \times .3295 =$	<i>13.84</i>

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	<i>56.10</i>	1		<i>56.10</i>	<i>56.0</i>	<i>56.00</i>	1		<i>56.00</i>
$\frac{1}{4}$ L from A.P. ...	<i>24.96</i>	4		<i>99.84</i>	<i>24.92</i>	<i>24.92</i>	4		<i>99.68</i>
$\frac{3}{4}$ L " ...	<i>6.17</i>	2		<i>12.34</i>	<i>6.75</i>	<i>5.75</i>	2		<i>11.50</i>
Amidships ...	-	4		-	0	-	4		-
$\frac{3}{4}$ L from F.P. ...	<i>12.34</i>	2		<i>24.68</i>	<i>12.0</i>	<i>12.00</i>	2		<i>24.00</i>
$\frac{1}{4}$ L " ...	<i>49.92</i>	4		<i>199.68</i>	<i>49.25</i>	<i>49.25</i>	4		<i>197.00</i>
F.P. ...	<i>112.20</i>	1		<i>112.20</i>	<i>112.0</i>	<i>112.00</i>	1		<i>112.00</i>
Total ...				<i>504.84</i>					<i>500.18</i>

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{4.66}{18} \left( .75 - \frac{.2170}{.59985} \right) = +.14"$

If limited on account of midship superstructure.

Mean actual sheer aft =	<i>Deficient</i>
Mean standard sheer aft	
Mean actual sheer forward =	<i>Deficient</i>
Mean standard sheer forward	
Length of enclosed superstructure forward of amidships =	
" " aft of " =	

Deduction for Tropical Freeboard.  
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = *34.07*  
Summer freeboard = *6.71*  
Moulded draught (d) = *27.36*

Deduction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches = *6.84* = *6 3/4*  
Addition for Winter North Atlantic Freeboard (if required) = *6.84 + 4.61 = 11.45 = 11 1/2*

Deduction for Fresh Water.

Displacement in salt water at summer load water line  
 $\Delta =$   
Tons per inch immersion at summer load water line  
T =

Deduction =  $\frac{\Delta}{40T}$  inches  
 $\frac{d}{4} = 6.84 = 6 3/4$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient	<i>.79468</i>	<i>.147</i>	
	<i>1.36</i>	<i>1.36</i>	
Depth Correction	<i>10.02</i>	<i>- 4</i>	
Deduction for superstructures	<i>-</i>	<i>13.86</i>	
Sheer correction	<i>-</i>	<i>.14</i>	
Round of Beam correction	<i>.09</i>	<i>-</i>	
Correction for Thickness of Deck amidships	<i>-</i>	<i>-</i>	
Other corrections, scantlings, etc.	<i>-</i>	<i>13.98</i>	
	<i>10.11</i>	<i>14.00</i>	

Summer Freeboard = *80.379*

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

Tropical Fresh Water Line above Centre of Disc	<i>13 1/2</i>	Tropical Fresh Water Freeboard	<i>5-7</i>
Fresh Water Line	<i>6 3/4</i>	Fresh Water	<i>6-1 3/4</i>
Tropical Line	<i>6 3/4</i>	Tropical	<i>6-1 3/4</i>
Winter Line below	<i>6 3/4</i>	Winter	<i>7-3 1/4</i>
Winter North Atlantic Line	<i>11 1/2</i>	Winter North Atlantic	<i>7-8</i>



A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

POOP EQUIV. Bhd.

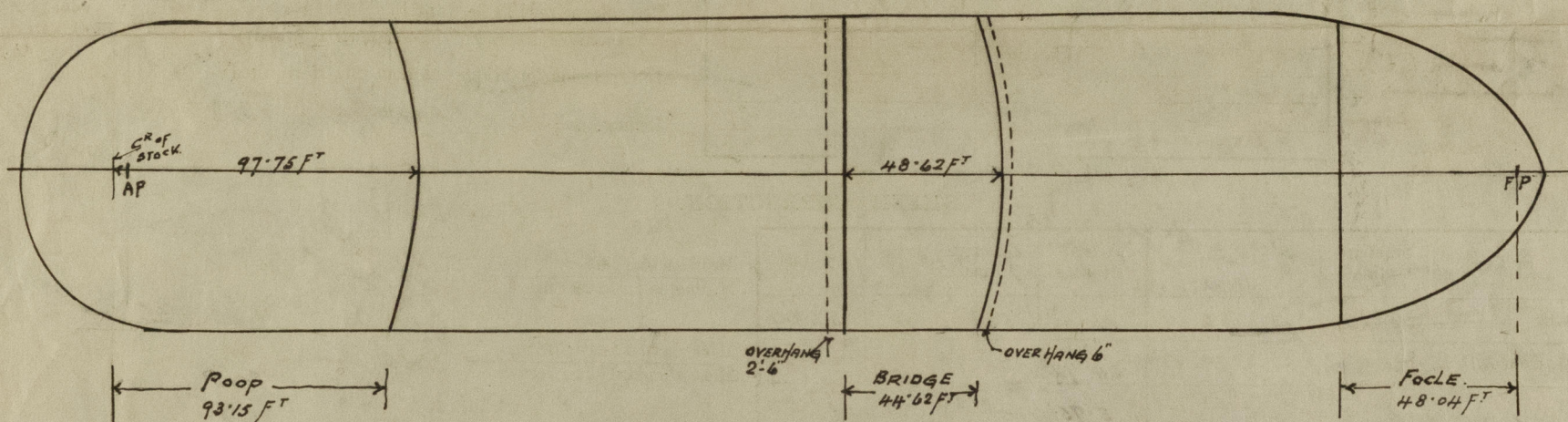
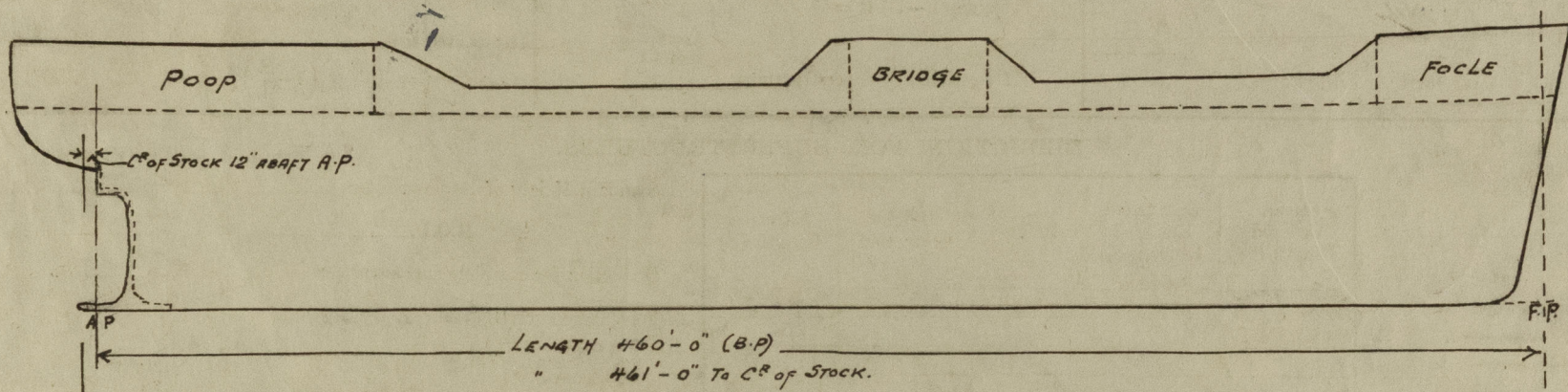
$$\frac{2}{3} \times 4.60 = 3.07$$

$$\frac{93.15}{96.22}$$

BRIDGE EQUIV. Bhd.

$$\frac{2}{3} \times 4.00 = 2.67$$

$$\frac{44.62}{47.29}$$



Builders request Preliminary Freeboard.

Approved plans of Midship Section & Profile & Becks are forwarded for reference.

Trade of ship International Trade.

Names of sister ships ✓

Builder's name and yard number Blythwood Shipbuilding Company Ltd Nº 57.

Owners Anglo Saxon Petroleum Co. Ltd.

Fee £            :            :           

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