

PRELIMINARY.

174 DEC 1944

Index. No. 37828
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR ~~STEAMER~~ ^{MOTOR} SAILING SHIP, TANKER.)

GLASGOW REPORT No. 69111

Ship's Name BLYTHSWOOD S.B. CO LTD N^{os} 82 + 83	Official Number ✓	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage ✓	Date of Build ✓	Port of Survey GLASGOW
Moulded Dimensions: Length 461.0 Breadth 59.0 Depth 34.1 To centre of rudder stock					Date of Survey 12th DEC. 1944
Moulded displacement at moulded draught = 85 per cent. of moulded depth ✓ tons					Surveyor's Signature 76 J. H. H. H.
Coefficient of fineness for use with Tables .790					Particulars of Classification + 100A1 "CARRYING PETROLEUM IN BULK"

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 34.08 ✓	(a) Where D is greater than Table depth (1 - Table depth) R = $\frac{10.1}{3.42} \times 3 = +13.26$	Moulded Breadth (B) 59.0 ✓
Stringer plate ... 80. ✓	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 14.16$ ✓
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = \text{NONE}$ ✓	If restricted by superstructures	Ship's Round of Beam = 14.3/4
Depth for Freeboard (D) = 34.15 ✓		Difference .59 ✓
		Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.59}{4} \times \frac{58.07}{59} = -.09$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>equivalent</i>	96.75 ✓	96.75 ✓	7.6 ✓	-	96.75 ✓
„ overhang ...					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed <i>equivalent</i>	50.83 ✓	50.83 ✓	7.6 ✓	-	50.83 ✓
„ overhang aft ...					
„ overhang forward					
Fore enclosed	45.75 ✓	45.75 ✓	7.6 ✓	-	45.75 ✓
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward					
Total ...	193.33 ✓	193.33 ✓			193.33 ✓

Standard Height of Superstructure **7.5** ✓
„ „ R.Q.D. ✓
Deduction for complete superstructure **42** ✓
Percentage covered $\frac{S}{L} =$
„ „ $\frac{S_1}{L} =$ } **41.93** ✓
„ „ $\frac{E}{L} =$
Percentage from Table, Line A, Tanker **32.93** ✓
(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 = **42 × 32.93 = -13.83** ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	56.10 ✓	1		56.10 ✓	56.5	56.50 ✓	1		56.5 ✓
1/4 L from A.P. ...	24.96 ✓	4		99.86 ✓	25.1	25.10 ✓	4		100.4 ✓
3/4 L „ ...	6.17 ✓	2		12.34 ✓	6.25	6.25 ✓	2		12.5 ✓
Amidships ...	-	4		-	-	-	4		-
3/4 L from F.P. ...	12.34 ✓	2		24.68 ✓	12.5	12.50 ✓	2		25.0 ✓
1/4 L „ ...	49.93 ✓	4		199.72 ✓	50.25	50.25 ✓	4		201.0 ✓
F.P. ...	112.20 ✓	1		112.20 ✓	113.0	113.00 ✓	1		113.0 ✓
Total ...				504.90					508.4 ✓

Mean actual sheer aft =
Mean standard sheer aft = } **Excess** ✓
Mean actual sheer forward =
Mean standard sheer forward = }
Length of enclosed superstructure forward of amidships =
„ „ aft of „ = } **Tanker** ✓
Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{3.5 \times (.75 - .2096)}{18 \times 50.4} = -.11$ ✓
If limited on account of midship superstructure. **No.** ✓
If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.79 + .68}{1.36} = \frac{1.47}{1.36}$ ✓
Depth to Freeboard Deck = 34.15 ✓	Δ =	Depth Correction ... 10.26 ✓
Summer freeboard = 6.71 ✓	Tons per inch immersion at summer load water line	Deduction for superstructures ... 13.83 ✓
Moulded draught (d) = 27.44 ✓	T =	Sheer correction11 ✓
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.86 = 6 3/4 ✓	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction09 ✓
Addition for Winter North Atlantic Freeboard (if required) = 6.86 + 4.61 = 11.47 = 11 1/2 ✓	d/4 = 6 3/4 ✓	Correction for Thickness of Deck amidships ...
		Other corrections, scantlings, etc. ...
		10.26 14.03 - 3.77 ✓
		Summer Freeboard = 80.49 ✓

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

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

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.

The length of the Poop + Bridge spaces are shown on the profile.
Copies of the Midship Section, Profile + Deck plans (2 plans) are
forwarded for reference.
Please forward copy of the Computations for the information of this office.

$$\begin{array}{r} \text{Poop.} \\ 2/3 \times 5 = \frac{93.42}{3.33} \\ \hline 96.75 \end{array}$$

$$\begin{array}{r} \text{Bridge.} \\ 2/3 \times 5 = \frac{47.50}{3.33} \\ \hline 50.83 \end{array}$$

Trade of ship International

Names of sister ships none

Builder's name and yard number ✓

Owners Anglo-Saxon Petroleum Co Ltd.

Fee £



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Foundation