

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

 Index. No. 29065  
 (For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker  
 having a Poop, a Trunk, a Bridge and a forecastle.  
 (Type of Superstructures.)

Port of Survey \_\_\_\_\_

Date of Survey 13/5/31

Name of Surveyor \_\_\_\_\_

Particulars of Classification +100 A-1  
Carrying petroleum in bulk.

Ship's Name S.S. "Oilfield" Nationality and Port of Registry British Gross Tonnage 10830 Date of Build 1923

Moulded Dimensions: Length 364.8 Breadth 51.0 Depth 30.75  
 Moulded displacement at moulded draught = 85 per cent. of moulded depth 10830 tons  
 Coefficient of fineness for use with Tables .779

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	30.75	(a) Where D is greater than Table depth (D - Table depth) R =	✓	Moulded Breadth (B)	51
Stringer plate	.05	(30.80 - 24.82) 2.806	✓	Standard Round of Beam = $\frac{B \times 12}{50}$	= 12.24
Sheathing on exposed deck		6.48	✓	Ship's Round of Beam	= 12.50
$T \left( \frac{L-S}{L} \right) =$		(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	✓	Difference	.26
Depth for Freeboard (D) =	30.80	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left( 1 - \frac{S_1}{L} \right)$	= .06 x .235 = -.01

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed	92.75	92.75	7.6		92.75	Standard Height of Superstructure <u>7.15.148</u>
" overhang						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure <u>39.66</u>
" overhang						Percentage covered $\frac{S}{L} = 43.33$
Bridge enclosed	25.50	25.50	8.0		25.50	" " $\frac{S_1}{L} = 76.57$
" overhang aft						" " $\frac{E}{L} = 41.172$
" overhang forward						Percentage from Table, Line A.
Fore enclosed	39.80	39.80	7.6		39.80	(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B.
Trunk aft $136.75 \times \frac{30.80}{51} =$		79.85	6.0	6.0	67.02	(corrected for absence of forecastle (if required))
" forward $70 \times \frac{30.80}{51} =$		41.17		7.148	34.55	Interpolation for bridge less than .2L (if required)
Tonnage opening aft						Deduction = $39.66 \times .6449 = 25.62$
" forward						
Total	158.05	249.07			259.62	

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P.	46.48	1		46.48	48.0	48.0	1		48.00	Mean actual sheer aft = <u>Green</u>
L from A.P.	20.68	4		82.72	20.54	20.54	4		82.16	Mean actual sheer forward = <u>Green</u>
L "	5.11	2		10.22	5.13	5.13	2		10.26	Length of enclosed superstructure forward of amidships = <u>Tankers</u>
midships	-	4		-	-	-	4		-	" " aft of " =
L from F.P.	10.22	2		20.44	10.37	10.37	2		20.74	
" "	41.36	4		165.44	41.48	41.48	4		165.92	
P.	92.96	1		92.96	96.0	96.00	1		96.00	
Total				418.26					423.08	

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{4.82}{18} \left( .75 - .216 \right) = -.14$

If limited on account of midship superstructure.

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

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

Depth to Freeboard Deck = 30.80  
 Summer freeboard = 4.24  
 Moulded draught (d) = 26.56

Deduction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches = 6.64  
 Addition for Winter North Atlantic Freeboard (if required) =

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	18.18	.56
Deduction for superstructures	-	25.00
Sheer correction	-	.14
Round of Beam correction	-	.01
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.	1	.71
	18.18	25.97

Summer Freeboard = 50.94 51.00SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:— 4-3"

Tropical Fresh Water Line above Centre of Disc ...  
 Fresh Water Line " " ...  
 Tropical Line " " ...  
 Winter Line below " " ...  
 Winter North Atlantic Line " " ...

Tropical Fresh Water Freeboard ...  
 Fresh Water " ...  
 Tropical " ...  
 Winter " ...  
 Winter North Atlantic " ...



# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	...	...	...	...	...	...	...	...	...
Dimensions of Hatchway	...	...	...	...	...	...	...	...	...
COAMINGS	Height above Deck	...	...	...	...	...	...	...	...
	Thickness	...	...	...	...	...	...	...	...
	Sides	...	...	...	...	...	...	...	...
	Ends	...	...	...	...	...	...	...	...
HATCH BEAMS	Stiffeners	...	...	...	...	...	...	...	...
	Brackets, Stays	...	...	...	...	...	...	...	...
	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
FORE AND AFTERS	Scantling and Sketch	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
HATCH COVERS	Unsupported Lengths	...	...	...	...	...	...	...	...
	Scantling* and Sketch	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
	Material	...	...	...	...	...	...	...	...
HATCH COVERS	Thickness	...	...	...	...	...	...	...	...
	How fitted	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
	Material	...	...	...	...	...	...	...	...
Spacing of Cleats	...	...	...	...	...	...	...	...	...
Number of Tarpaulins	...	...	...	...	...	...	...	...	...

\*Are wood fore and afters steel shod at all bearing surfaces?  
 Are battens and wedges efficient and in good condition?  
 Are tarpaulins in good condition and in accordance with rule requirements?  
 Are lashings provided in accordance with rule requirements?

Particulars of fiddle, funnel and ventilator coamings:—

Particulars of Flush Bunker Scuttles:—

Particulars of Companionways:—

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

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

Particulars of Gangway Cargo and Coaling Ports:—

Particulars of Scuppers and Sanitary Discharge Pipes —

Particulars of Side Scuttles:

Particulars of Guard Rails:—

Particulars of Gangways, Lifelines, etc.:—

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	...	...	...	...	...	...
Forward Well	...	...	...	...	...	...

State position of each freeing port ... { After Well:—  
 (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:—  
 Additional area where sheer is less than standard.

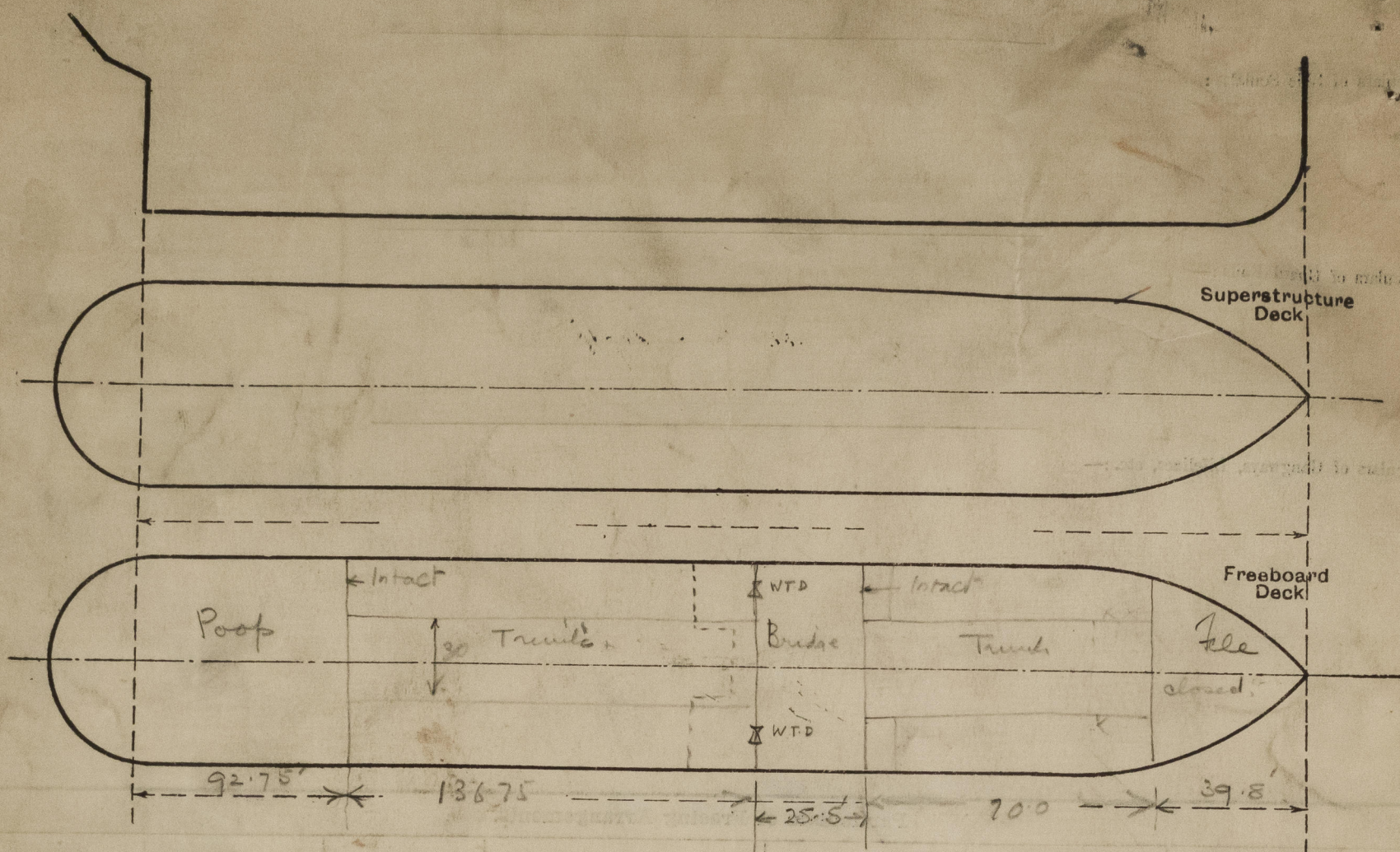
Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	...	...	...	...	...	...	...	...
Raised Quarter Deck Bulkhead	...	...	...	...	...	...	...	...
Bridge, After Bulkhead	...	...	...	...	...	...	...	...
Bridge, Forward Bulkhead	...	...	...	...	...	...	...	...
Forecastle Bulkhead	...	...	...	...	...	...	...	...
Trunk, Aft	...	...	...	...	...	...	...	...
Trunk, Forward	...	...	...	...	...	...	...	...
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	...	...	...	...	...	...	...	...
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	...
Bridge, After Bulkhead	...
Bridge, Forward Bulkhead	...
Forecastle Bulkhead	...
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	...
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 shown on the following sketches:



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

$$\text{Length} \quad 206.75 \times \frac{30.5}{51.8} = 121.6$$

Conditions for Laurel Ridge.

Strength —

Machinery Casings : —

Gangway

Bulwarks

Hatchway

Ventilators

Full class

On the Deck Poop and casings are intact

Poop deck openings to the closed with steel doors

with 15" sills the close both sides

Fitted fore and aft details to be submitted

Open rails fitted in way of trunks

Cargo hatch on trunk steel cover to be fitted

to be adequately protected

Forecastle fitted

Long frame

Plans the submitted

Builder's name and yard number

Names of sister ships

Owners

Fee £

Received by me



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