

34000

11b

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.—^{Modern}~~STEAM~~ SHIPS.


25 APR 1931

PARTICULARS RELATING TO ALL STEAM SHIPS, EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, ^{McLure} SHORT POOPS, AND BRIDGE HOUSES, DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey NEWCASTLE-ON-TYNE

Date of Survey 22nd April 1931

Name of Surveyor Thomas S. Shute.

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
M. S. <i>Cardium</i> Number in Register Book <i>22</i>	<i>London</i> <i>British.</i>	<i>✓</i>	<i>✓</i>	<i>New</i> <i>Vessel.</i>	 <i>100, A.1. "carrying petroleum in bulk"</i> <i>(Contemplated).</i>

Registered Dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	451.3	62.0	34.05	7482.67
Length on LOADLINE.	450.0	^{mean} Frame Depth 104 Rule " 7 $6\frac{1}{2} = 2 \times 3\frac{3}{4}$ $- .54$ No. St ^g + 33	^{No} Ceiling + 2.0 Sheer + 1.03	Peak Included Tanks E. R. Double Bottom + 57 tons Fore Deep Tanks Floors + 11 tons
CORRECTED DIMENSIONS.	450.0	61.79	35.28	7550.67

Moulded Depth as measured..... $34'-0"$
- Rule wood deck less str $- 3\frac{1}{4}$

 $33-8\frac{3}{4}"$ to use

Addition for Keel below base line
for draught record..... $1\frac{7}{8}$ inches.

NOTE. — If the depth is measured when vessel is afloat, the details of measurement should be reported.

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CORRECTION FOR LENGTH.

*Length of Ship on Loadline.....	450.0		
	404.75		
	45.25		
Length in Table	42.0		
Difference			
Correction for 10ft., Table A.	1.7	Table C.	.8
× Difference divided by 10	7.14	(if required.)	3.86
If $\frac{1}{10}$ the length covered divide by 2	+ 7 $\frac{1}{2}$		+ 3 $\frac{1}{2}$

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{7}{16}$ ths length covered	4.008
Thickness of usual wood deck, less stringer	3.3
<i>2.5 allowed for double deck</i>	
	1.4

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	61.75	
Round of Beam	15 $\frac{1}{2}$	
Normal round.....	15 $\frac{1}{2}$	
Difference	✓	÷ 2 =
Proportion of Deck uncovered (Para. 19)		✓

NOTE. — The round of beam should be reported on the full breadth of vessel at the gunwale.

Rise in Sheer from amidships [Para. 18 (e)]	{	At front of bridge house.	$\frac{1}{6}^{\text{in}}$ from Stern = 4-5 $\frac{1}{2}$
			$\frac{1}{6}$ from Stern = 2-2 $\frac{3}{4}$
	{		$\frac{1}{3}$ from Stern = 1-1 $\frac{1}{2}$
At after end of forecastle		$\frac{1}{3}$ from Stern = - 6 $\frac{3}{4}$	

Fall in Sheer	} $\div 2 =$	Lowest point of Sheer amidships.	Cor
Para. 18 (d)			
Length uncovered	Correction	

ALLOWANCE FOR DECK ERECTIONS :—

Freeboard, Table C.....	6-04
Correction for Length, if required (Para. 12, 13, and 14)	+ 3 1/2
	6-43
Freeboard by Table A. corrected for sheer, and for length, } if required (Para. N 12, 13, and 14) }	9-21
Difference	2-10"
Percentage as below.....	25.06
	24.85%
	8.46

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) ✓

Allowance for Deck Erections - 82

	Length.	Length allowed.	Height.
Forecastle.....	42.125'	42.125'	7.25'
Bridge House	34.5'	34.5'	7.25'
† Raised Or. Dk.		
Poop.....	104.96 102.54'	102.54 103.75 129.165	7.25'
Side		180.275	
Total			39.81
Length of Ship		450.0	= 400.8
Corresponding percentage (
(Para. N, 12, 13, or 14) (26.06.	24.88%	

FREEBOARD recommended amidships from centre of Disc to top of Statutory I

Fresh Water Line	above	centre	of	Disc
Indian Summer Line	"	"	"	"
Winter Line	below	"	"	"
Winter North Atlantic Line	"	"	"	"

Winter Freeboard	8-4 $\frac{1}{2}$
Summer Freeboard	7-10 $\frac{1}{2}$
Indian Summer Freeboard	7-4 $\frac{1}{2}$
N. A. Winter Freeboard	

Correction necessary because clearside amidships, measured
in accordance with the Statute is not taken at the
intersection of the ~~wood or steel~~ deck with side.

Winter Freeboard from deck line	8-6 ¹ / ₄
Summer " " " "	8-0 ¹ / ₄
Indian Summer " " " "	7-6 ¹ / ₄
N. A. Winter " " " "	

Wood (Steel) Deck :— 8'-0" ✓
... .. 6' ✓ 7 1/2" 23/12/21

The Surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft should be reported.

MARKING FORM
RECEIVED - 7 MAY 1981

* If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.

+ In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.

\$ In flush-deck vessels the total standard mean sheer means the sheer measured at the stem and stern-post. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern-post.

1,30. T.

$$F.W. = \frac{16565}{2.25} = 739.$$

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Do all the Frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? *✓* Bridge House? *Yes* Forecastle? *Yes*
 To what height do the Reverse Frames extend? *None. Frame legs = B.A.* Deck & bottom = *Longitudinal Framing.*
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *Yes*
 Give particulars of the means for closing the openings in Bulkhead *Two openings (5'6" x 2'6"). Steel coamings 18". Closed with steel doors on riveted hinges.*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *No* Has the Bridge House an efficient Bulkhead at the fore end? *Yes*
 Give particulars of the means for closing the openings in Bulkhead *One opening (5'0" x 2'6") Steel coamings 18". Closed with steel doors on riveted hinges.*
 What is the thickness of the Bridge Front plating? *40* and Coaming plate? *44*
 Give scantlings and spacing of the Stiffeners *Bull angle 9 x 3 1/2 x 4 1/2 N.B.S. Spaced 2'3 1/2" — 2'7"*
 Are bracket plates fitted at each end of the Stiffeners? *Yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *Yes*
 Has the Bridge House an efficient Iron Bulkhead at the after end? *Yes*
 How are the openings closed? *Two openings (5'1" x 3'1") Steel Coamings 18". Closed with steel plates, secured with hooked bolts (Top=2 Bottom=2. Each side=4). not through B.H.*
 Is the Forecastle at least as high as the main or top-gallant rail? *7'3"* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *Yes*
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Yes on Poop*
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *Yes*
 Give thickness of plating, scantlings and spacing of Stiffeners *✓*
 What is the height of the exposed Casings? *7'9"* Are suitable means provided for closing all openings in them in bad weather? *Yes*

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of the Rules? Give particulars below:—

Position.		U. D ⁴		O.T. Hatches								
Size.		9'0" x 12'-1"		Upper Deck								
COAMING	Height above top of DECK	2'-6"	2'-0"	2'-6"								
	Thickness {	Sides.....	44	44	40.							
		Ends.....	44	44	40.							
SHIFTING BEAMS OR WEB PLATES.	{	Number	None		✓							
		Section and Scantlings										
		Material										
* FORE AND AFTERS.	{	Number	None.		✓							
		Section and Scantlings										
		Material										
HATCHES Thickness		Steel Covers 5'0."		Steel Covers 6'0"								
Remarks.....		B.A. 5½ x 31.42. S=3'0"										

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of keel to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? *✓*

Strake between Main and Bridge Sheerstrakes? *✓*

Delete the words } The Crew are, are not, berthed in the bridge house.
 that do not apply } (The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Poop, Bridge & Forecastle connected by gangway

Length of Bulwarks in well

Area of Freeing Ports required by Para. 11 (e) each side of vessel =

Sq. ft.

Ft. Tenths. Ft. Tenths. No.

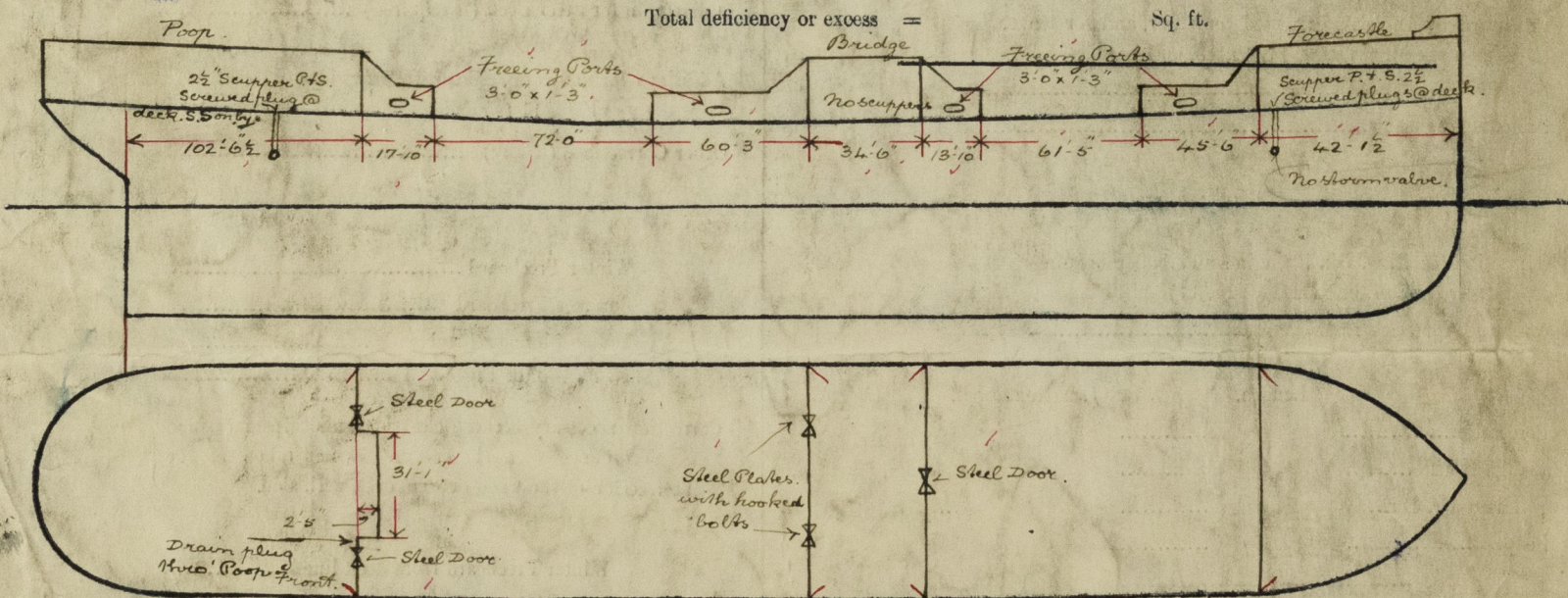
x x
x x

Freeing Ports
(each side of vessel)

Moulded displacement
at 85% of depth moulded
Sq. ft. = 18278 tons.

Total deficiency or excess =

Sq. ft.



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

State any special features in the construction of the Vessel *Plans in London*

Builder's name and yard number *Swan Hunter & Wigham Richardson Ltd. N° 1455.*

Names of sister vessels *Motor ship "Candita" N° 1453 " " " "*

assignment Letter dated 1 April 1931
Report No. 86972.

Owners *Anglo Saxon Petroleum Co. Ltd.*

Address

Fee £ *14* : 0 : 0

Received by me

See L.C. Report

Paid 23/4/31.

Lloyd's Register
 Foundation