

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD. - STEAM SHIPS. MOTOR.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, 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 Grunock
Date of Survey While Building
Name of Surveyor H. L. Swinton.

BT. O. 11

Ship's Name. "KATOORA"	Port of Registry and Nationality. <u>Melbourne (Dom.)</u>	Official Number.	Gross Tonnage.	Date of Build. <u>1927.</u>	Particulars of Classification. <u>100A (Contemplated)</u>
Number in Register Book					

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>135.30.</u>	<u>26.20.</u>	<u>8.70.</u>	<u>221.84.</u>
Length on LOADLINE.	<u>134.75</u>	Frame Depth Rule <u>2x2-</u> <u>33-</u>	Ceiling <u>filled</u> Sheer + <u>10.</u> <u>Depo</u>	Peak } Tanks } <u>Included</u> <u>Space between</u> <u>normal floor</u> <u>is filled in</u> <u>Motor room</u> <u>+ 7.00</u>
CORRECTED DIMENSIONS.	<u>134.75</u>	<u>25.87.</u>	<u>8.80.</u>	<u>228.84.</u>

Moulded Depth as measured..... 9'-6"

Addition for Keel below base line for draught record.... 1 1/4 inches.

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

Co-efficient of fineness..... .7456

Any modification necessary [Para. 4 (a) to (e)]*

Co-efficient as corrected..... .745

CORRECTION FOR LENGTH

Length of Ship on Loadline.....	<u>134.75</u>
Length in Table	<u>114</u>
Difference	<u>20.75</u>
Correction for 10ft., Table A.	<u>.8</u>
Table C.	<u>.4</u>
× Difference divided by 10	<u>1.66</u> (if required.)
If 1/10ths length covered divide by 2	<u>+ 1 1/4</u>
	<u>+ 3/4</u>

Sheer { Stem..... 42
at { Sternpost ... 132 } 552 ÷ 2 = 27.75 Mean

Sheer at 1/3 of the length from { Stem 22 1/2
Sternpost 7 1/2 } 30 ÷ 2 = 15 Mean

Gradual mean Sheer 27.27 ÷ .55 = 27.27

Standard mean Sheer [Table, Para. 18] 28.47 18.00 Correction

Difference..... 10.47 14.08 .92 ÷ 4 = .23

§ If limited as Para. 18 (f) - 1/4

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered 488

Thickness of usual wood deck, less stringer 2 3/4 2 5/8 - 1 1/2 ✓

.134

Rise in Sheer from amidships [Para. 18 (e)] { At front of bridge house.....
At after end of forecastle ✓

Fall in Sheer { Para. 18 (d) } ÷ 2 =

Length uncovered ✓ Correction

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 26.0

Round of Beam 7

Normal round..... 6 1/2

Difference 1/2 ÷ 2 = 1/4

Proportion of Deck uncovered (Para. 19)51 ✓

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

ALLOWANCE FOR DECK ERECTIONS :-

Freeboard, Table C.....	<u>0' - 2 1/4</u>
Correction for Length, if required (Para. 12, 13, and 14)	<u>2</u>
Freeboard by Table A. corrected for sheer, and for length, if required (Para. 12, 13, and 14) }	<u>0' - 2 1/2</u> <u>3</u>
Difference	<u>1 - 5 1/2</u> <u>12</u>
Percentage as below.....	<u>28.94</u> <u>17.57</u>
	<u>4.19</u> <u>2 1/2</u>

Freeboard, Table A	<u>1 - 3 3/4</u>
Correction for Sheer	<u>1/4</u>
Correction for Length	<u>1 - 5 1/2</u> <u>12</u>
Allowance for Deck Erections	<u>2 1/2</u> <u>14 1/4</u>
Correction for Round of Beam.....	<u>1 - 2 1/2</u> <u>1</u>
Correction for fall in Sheer (if any).....	<u>1/2</u>
Correction for Steel Deck (if required)	<u>1 - 1 1/2</u> <u>0 - 11 3/4</u>
Additions for non-compliance with provisions of Para. 11 (d) and (e) †	✓
Other Corrections (if any)	✓

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) } 1 1/4

Allowance for Deck Erections 2 1/2

Winter Freeboard 1 - 10 0 - 11 3/4

Summer Freeboard 1 1/2 10 1/4

Indian Summer Freeboard 10 1/2 8 3/4

N. A. Winter Freeboard

Length.	Length allowed.	Height.
Forecastle..... <u>25.83</u> <u>10.00</u>	<u>23.87</u>	<u>7</u>
Bridge House..... <u>28.16</u>	-	-
† Raised Qr. Dk..... <u>40.67</u> <u>3</u>	<u>37.77</u>	<u>3</u>
Poop.....	<u>12.94</u>	<u>7 1/2</u>
Total..... <u>65.84</u> <u>12.00</u> <u>.488</u>	<u>61.64</u> <u>8</u> <u>7.86</u> eightths.	
Length of Ship..... <u>134.75</u> = <u>143</u>	<u>84</u> <u>.97</u> <u>134.75</u>	
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>29.28</u> <u>× 1/2</u> = <u>14.64</u>	
	<u>factor .64</u> <u>(3.23 × .4) = .64</u> <u>.57 = .97</u>	

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. + 1 1/2

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck :-

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

Winter Freeboard from deck line 1 - 2 1/2 11

Summer " " " 1 - 7 0 - 11 1/2

Indian Summer " " " 11 0 - 10

N. A. Winter " " "

0' ... 1 1/2 1 - 0 - 11 1/2

2' ... 2 2

1 1/2' ... 1 1/2 1 1/2

1 1/4' ... 1 1/4 1 1/2

† 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-decked 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.

† State dimensions of freeing port area on back of this form.

‡ 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.

22 JUL 1927

Copy to Surveyor 21-7-27

RECEIVED 8-AUG 1927

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Do all the Frames extend to the top height in the Poop? Raised Quarter Deck? *Yes* Bridge House? Forecastle? *Yes*
 To what height do the Reverse Frames extend? *Across top of floor only*
 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 *No openings*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? Has the Bridge House an efficient Bulkhead at the fore end?
 Give particulars of the means for closing the openings in Bulkhead
 What is the thickness of the Bridge Front plating? and Coaming plate?
 Give scantlings and spacing of the Stiffeners
 Are bracket plates fitted at each end of the Stiffeners? Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?
 Has the Bridge House an efficient Iron Bulkhead at the after end?
 How are the openings closed?
 Is the Forecastle at least as high as the main or top-gallant rail? *Yes* 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? *By Raised Q^d deck*
 If the openings are not so protected are the exposed parts of the Casings efficiently constructed?
 Give thickness of plating; scantlings and spacing of Stiffeners *Casing 20" Cas. 30, Stiff. 2 1/2" x 2 1/2" x 28 @ 30" apart*
 What is the height of the exposed Casings? *7'-0"* 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 Section 28 of the Rules for 1904-5? Give particulars below:—

Position and Size.		N.1. 22'9" x 12'0"		N.2. 24'6" x 12'0"							
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING	Height above top of DECK	30"		30"							
	Thickness	Sides.....	38"	38"							
		Ends.....	38"	38"							
SHIFTING BEAMS OR WEB PLATES	Number.....	5		5							
	Section and Scantlings.....	17" x 30"		Same as N.1.							
	Material.....	Steel									
* FORE AND AFTERS.	Number.....										
	Section and Scantlings.....	None.		None.							
	Material.....										
HATCHES	Thickness.....	2 1/2" P.P.		2 1/2" P.P.							
	Remarks.....	Solid.		Solid.							

* 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 deck at side amidships 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 not~~, berthed in the bridge house.
 The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

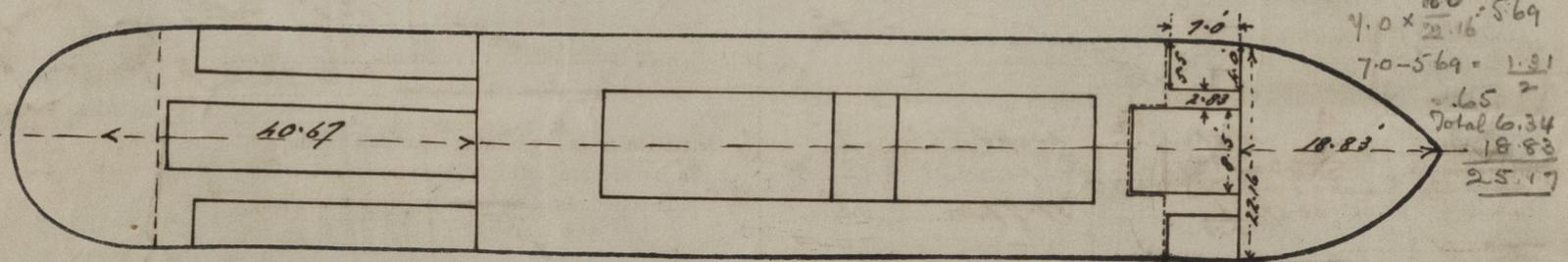
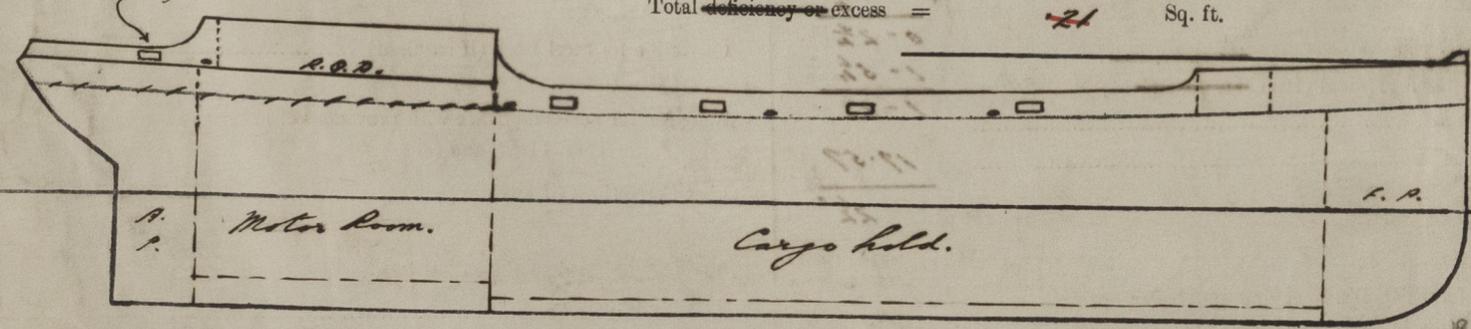
Length of Bulwarks in well *67.83 ft.*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *56* 17.75 Sq. ft.

Ft. Tenths. Ft. Tenths. No. } Freeing Ports (each side of vessel) = *13.96* Sq. ft.
 2.33 x 1.5 x 4

Total deficiency or excess = *.40* 21 Sq. ft.

Under 15 feet Co



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 *Single screw Motor Vessel. Ordinary floors. Built in accordance with the approved plans of Midship Section 2 Profile & Bk. plans forwarded herewith. Request form attached.*
 Builder's name and yard number *Messrs. George Brown & Co. Greenock, W. 155.*

Names of sister vessels *1*
 Owners *The Adelaide Steamship Co. Ltd.*
 Address *Adelaide.*

Fee £ *1 : 16 : 8* Received by me
 (if under 300 tons)



3 stiffen each side upper deck. (this strange angle) R.P.