

WRECK DAY  
No. 166

Index. No. 527  
(For London Office only.)

32912

Port of Survey *London*

Date of Survey 17<sup>th</sup> May 1932

Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
British Newcastle	149482	4136 <del>4235</del> 4222	1928. 11.

Name of Surveyor R. Blake.

Particulars of Classification + 100 A 1.  
with Freeboard

**Depth correction**

(a) Where D is greater than Table depth  
(D - Table depth) R =  
 $(27.53 - 24.30) 2.804 = +9.06$

(b) Where D is less than Table depth (if allowed)  
(Table depth - D) R =  
✓

If restricted by superstructures ✓

Round of Beam correction

Moulded Breadth (B) 51.16

Standard Round of Beam =  $\frac{B \times 12}{50} = 12.28$

Ship's Round of Beam 12

Difference .28

Restricted to ✓

Correction =  $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{.28}{4} \times .065 = \text{nil}$

## Standard Height of Superstructure 7.148

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ... ..	28.41 <sup>75</sup>	28.75	7'-6"	✓	28.75
" overhang ... ..	✓				
R.Q.D. enclosed ... ..	✓				
" overhang ... ..	✓				
Bridge enclosed ... ..					
" overhang aft ... ..	331.13	331.13	7'-6"	-	331.13
" overhang forward ... ..					
File enclosed ... ..					
" overhang ... ..					
Trunk aft ... ..	✓				
" forward ... ..	✓				
Tonnage opening aft ... ..	4.66	2.33			2.33
" " forward ... ..	✓				
Total ... ..	364.54	362.21			362.21

R.Q.D. ....

Deduction for complete superstructure ..... 39.64

Percentage covered  $\frac{S}{L} = 100\%$

" "  $\frac{S_1}{L} = 99.35\%$

" "  $\frac{E}{L} = 99.35\%$

Percentage from Table, Line A. 99.20%  
(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 =  $39.64 \times 99.2 = -39.32$

Actual Superstructure Height = 90"  
Standard - - - - - 85.74

Station	Standard Ordnate	S M	Product	Actual Ordnate	Effective Ordnate	S M	Product
A.P. ...	46.45	1	46.45	63.00	67.26	1	67.26
$\frac{1}{2}$ L from A.P. ...	20.67	4	82.68	26.85	29.93	4	119.72
$\frac{3}{8}$ L " ...	5.11	2	10.22	6.71	7.40	2	14.80
Amidships ...	,	4	,	,	,	4	,
$\frac{3}{8}$ L from F.P. ...	10.22	2	20.44	13.03	13.03	2	26.06
$\frac{1}{2}$ L " ...	41.35	4	165.40	52.13	52.19	4	208.76
F.P. ...	92.90	1	92.90	113.00	117.26	1	117.26
Total			418.09				553.86

$$\frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} = \text{Excess}$$
$$\frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} = \text{Excess.}$$
$$\frac{\text{Length of enclosed superstructure}}{L} \begin{matrix} \text{forward of amidships} = \\ \text{" " aft of " } = \end{matrix} \left. \vphantom{\frac{\text{Length of enclosed superstructure}}{L}} \right\} C . 5 . 5$$
$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left( 75 - \frac{8}{2L} \right) = \frac{135.11}{18} (75 - 50) = -1.89''$$

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.

Deduction for Fresh  
Water.

TABULAR FREEBOARD corrected for Flush Deck (if required)

		Fl.
Depth to Freeboard Deck	=	27.53
Summer freeboard	=	2.83
Moulded draught (d)	=	24.70

Displacement in salt water at  
summer load water line

### Correction for coefficient

Winter freeboard =  $\frac{d}{4}$  inches =  $6.17 = 6\frac{1}{4}$ "

$$\text{Deduction} = \frac{\Delta}{40T} \text{ inches}$$

$$= 6.95 = 7'$$

Depth Correction ... ..	9.06	—
Deduction for superstructures ... ..	—	39.32
Sheer correction ... ..	—	1.89
Round of Beam correction ... ..	—	—
Correction for Thickness of Deck amidships ... ..	—	—
Other corrections, scantlings, etc. ... ..	—	—

Addition for Winter North Atlantic Freeboard (if required)= /

9.06 41.21 - 32.15  
Summer Freeboard = 33.94

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"
Fresh Water Line	"	"	7"
Tropical Line	"	"	6 1/4"
Winter Line	"	"	6 1/4"
Winter North Atlantic Line	"	"	6"

Tropical Fresh Water Freeboard	...	...	1' - 8 1/4"
Fresh Water	"	...	2' - 3"
Tropical	"	...	2' - 3 3/4"
Winter	"	...	3' - 4 1/4"
Winter North Atlantic	"	...	3' - 4 1/4"

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## MARKING FORM

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## PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS											
Superstructure Deck						Freeboard Deck					
Description of Hatchway	Nº 1	Nº 2	Nº 3	Nº 4	Nº 5	Nº 6	Nº 1	Nº 2	Nº 3	Nº 4	Nº 5
Dimensions of Hatchway	24'-9" x 18'-0"	30'-0" x 18'-0"	12'-6" x 18'-0"	30'-0" x 18'-0"	25'-0" x 18'-0"	12'-6" x 13'-6"	24'-9" x 18'-0"	30'-0" x 18'-0"	12'-6" x 18'-0"	30'-0" x 18'-0"	25'-0" x 18'-0"
COAMINGS											
Height above Deck	36"	36"	36"	36"	36"	36"	9" BA	9" BA	9" BA	9" BA	9" BA
Thickness	44"	44"	44"	44"	44"	44"	NONE	NONE	NONE	NONE	NONE
Stiffeners	7 1/2 BA	7 1/2 BA	7 1/2 BA	7 1/2 BA	7 1/2 BA	7 1/2 BA	NONE	NONE	NONE	NONE	NONE
Brackets, Stays	2	2	NONE	2	2	NONE	NONE	NONE	NONE	NONE	NONE
HATCH BEAMS											
Number	4	4	1	4	3	1	4	5	2	5	4
Spacing	5'-0"	6'-0"	6'-3"	6'-0"	6'-0"	6'-3"	5'-0"	5'-0"	4'-2"	5'-0"	5'-0"
Scantling and Sketch	4x3x44" 14x36" 4x3x44"	4x3x44" 14x32" 4x3x44"	4x3x44" 14x32" 4x3x44"	Same as Nº 2	Same as Nº 2	Same as Nº 2	4x3x44" 15x36" 4x3x44"	Same as Nº 1	Same as Nº 1	Same as Nº 1	Same as Nº 1
Bearing Surface	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"
FORE AND AFTERS			NONE	Fitted							
Number											
Spacing											
Unsupported Lengths											
Scantling* and Sketch											
Bearing Surface											
HATCH COVERS											
Material	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.
Thickness	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"
How fitted	F & A	F & A	F & A	F & A	F & A	F & A	F & A	F & A	F & A	F & A	F & A
Bearing Surface	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
Spacing of Cleats	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"
Number of Tarpaulins	3	3	3	3	3	2	NONE	NONE	NONE	NONE	NONE

\*Are wood fore and afters steel shod at all bearing surfaces? yes

Are battens and wedges efficient and in good condition? yes

Are tarpaulins in good condition and in accordance with rule requirements? yes

Are lashings provided in accordance with rule requirements? yes

Particulars of fiddley, funnel and ventilator coamings :—

Stokehold gratings covered by strong steel hinged covers. -  
Fidley & funnel ventilators in efficient condition. -  
Engine skylight of steel strongly constructed. -

Particulars of Flush Bunker Scuttles :—

None.

Particulars of Companionways :—

alone!

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

List of Ventilators in exposed positions on freeboard and superstructure decks:—									
1	-	6" dia	Vent	on	Forecastle	8' 17" high	x	3/16	to Fore Peak.
2	-	9'	"	"	"	2'-7"	x	1/4"	Forecastle accommodation
6	-	6	"	"	"	1-6	x	3/16	"
16	-	17	"	"	Superstructure	Coaming	2'-6" x 3/8"	-	Hold Spaces
4	-	9 1/2	"	"	"	"	2'-6" x 3/8"	-	Coal Bunkers
1	-	9	"	"	"	"	2'-6" x 3/8"	-	Tunnel.
2	-	6	"	"	"	"	1-6 x 3/16	-	Tween decks.

All vent. coamings provided with hood plugs & canvas covers

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

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

1 -	4" dia C.I. air pipe on Forecastle Deck	58'	12"	high led to D.B. Canister
8 -	4½" " " " Superstructure "	"	12	" " " "

all air pipes closed with canvas covers. ✓

Particulars of Gangway Cargo and Coaling Ports:—

None. /

Particulars of Scuppers and Sanitary Discharge Pipes :-

1 Scupper each side from Superstructure Deck, discharging through Ship's side just below Superstructure Deck.  
4 Scuppers each side from Freeboard Deck discharging through Ship's side just below Freeboard Deck wood plating at inner end. No storm valves fitted.  
4 Sanitary discharges each side from Superstructure Deck discharging through ship's side between freeboard & superstructure Decks. N.R. Valves at ship's side, & efficient traps at inner end.

Particulars of Side Scuttles :-

all Side Scuttles of substantial construction and fitted with hinged deadlights.

Particulars of Guard Rails :-

Guard rails on Topgallant Forecastle Deck 3'-2" high having 2 rods with stanchions spaced 4'-0" apart  
" " " Superstructure Deck 3'-3" " 3 " " " 5'-0"

Particulars of Gangways, Lifelines, etc. :-

None.

Particulars of Freeing Arrangements.

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 ... ..	open rails in way of latches.					
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.

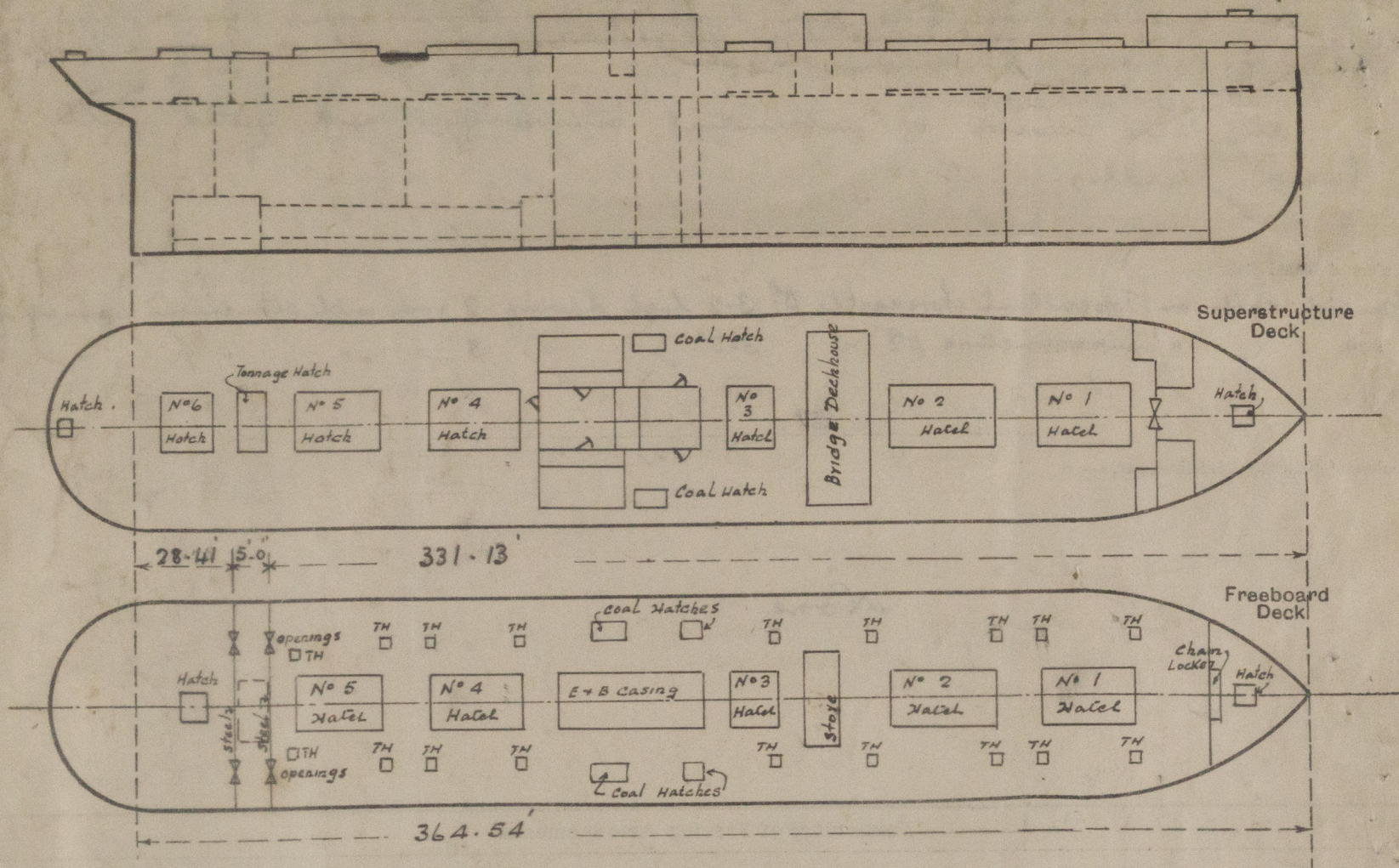
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ...	26"	26"	3 1/2 x 3 1/2 x 36	2-8	none	5'-6" x 3'-6"	12"	
Raised Quarter Deck Bulkhead ...	✓	✓	✓	✓	✓	✓	✓	✓
Bridge, After Bulkhead ...	32	32	3 1/2 x 3 1/2 x 36	2-3	none	5'-6" x 3'-6"	12"	
Bridge, Forward Bulkhead ...	✓	✓	✓	✓	✓	✓	✓	✓
Forecastle Bulkhead ...	✓	✓	✓	✓	✓	✓	✓	✓
Trunk, Aft ...	✓	✓	✓	✓	✓	✓	✓	✓
Trunk, Forward ...	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Superstructure Decks ...	38"	30	3 1/2 x 3" x 32	32"	continuous	3 w 4'-5" x 21" 2 w 4'-9" x 23"	20" 23"	7'-1"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	36	36	3 1/2 x 3 1/2 x 36	3 1/2	Nil.	20 x 24 x 36	2'-9"	7'-6"
Deckhouses on Flush Deck Ships ...	✓	✓	✓	✓	✓	✓	✓	✓

Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	Weather boards & riveted channels full height
Raised Quarter Deck Bulkhead ...	✓
Bridge, After Bulkhead ...	Weather boards & riveted channels full height
Bridge, Forward Bulkhead ...	✓
Forecastle Bulkhead ...	✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓
Exposed Machinery Casings on Superstructure Decks ...	3 hinged steel doors operated from both sides 2 " hardwood " " " " " " " " " "
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	2 hinged steel doors, operated from both sides
Deckhouses on Flush Deck Ships ...	✓

Finnale

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:—

Position	N°	Size	Coamings	Battening down arrangements.
Superstructure $\frac{1}{2}$ to Freeboard $\frac{1}{2}$	1	3-8 x 3-0	3" Bulb Angle	wood cover no tarpaulins
" " " " "	2	11-6 x 3-0	3-0 x .32	wood covers, cleats, battens & tarpaulins
" " " Lazarette.	1	2-8 x 2-5	1-9 x .32	wood covers, cleats, battens & tarpaulins
Freeboard " " Fore Peak	1	3-9 x 3-0	3 1/2" angle	wood covers, no battens or tarpaulins
Freeboard " " Hold Space	18	2-0 x 2-0	3" Bulb Angle	Hinged wood covers with clips & toggles
Freeboard " " After Peak	1	6-0 x 6-0	12" x .36	W.T. Bolted plate cover
" " " Coal Bunker	2	4-6 x 4-3	3" Bulb Angle	wood covers, cleats, battens & 2 tarpaulins
" " " " "	2	9-0 x 4-3	3" " "	No covers. do do do

Builder's name and yard number

Sir J. Priestman & Co. H: 280.

Names of sister ships

Owners

Morrison S. S. Co. Ltd.

Fee £

12 : 15 : 0

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