

Reg. 9 attached.

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Index. No. **30886**
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Rpt. C.11.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker
POOP - BRIDGE - FORECASTLE

having

Port of Survey **Cardiff**

Date of Survey **6th Oct. 1932.**

Name of Surveyor **Wm. Rennie**

Particulars of Classification **+100 A1**
S.S. Nue No 1-29

Ship's Name **"S.S. MERVYN"**

Nationality and Port of Registry **British Cardiff**

Official Number **145647**

Gross Tonnage **3402**

Date of Build **1924**

Moulded Dimensions: Length **337'** Breadth **47.75'** Depth **25.0'**

Moulded displacement at moulded draught = 85 per cent. of moulded depth **7701** tons

Coefficient of fineness for use with Tables **.788**

Depth for Freeboard (D) **25.0**

Moulded depth ... **25.0**

Stringer plate ... **.54**

Sheathing on exposed deck **.04**

$T \left(\frac{L-S}{L} \right) =$ **.04**

Depth for Freeboard (D) = **25.04**

Depth correction

(a) Where D is greater than Table depth
 (D - Table depth) R = **(25.04 - 22.47) 2.592 = +6.66**

(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) **47.75**

Standard Round of Beam = $\frac{B \times 12}{50} =$ **11.46**

Ship's Round of Beam = **11.46**

Difference **.46**

Restricted to **✓**

Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.46}{4} \times .5109 =$ **.06**

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	26.83	26.83	7'-6"	✓	26.83
" overhang50	.25			.25
R.Q.D. enclosed ...	105.43	105.43	7'-6"	✓	105.43
" overhang ...	106.30	3.80			3.80
Bridge enclosed ...	4.83	3.80	7'-6"	✓	28.50
" overhang aft ...	5.07				28.50
" overhang forward ...	28.00	28.50	7'-6"	✓	28.50
F'cle enclosed Open50				
" overhang ...	82.79		3'-6"		
Trunk aft ...	82.12		3'-6"		
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	166.33	164.81			164.81

Standard Height of Superstructure **6.87**

" " R.Q.D. **✓**

Deduction for complete superstructure **37.80**

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

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECK						
FREEBOARD DECK						
FOREWELL						
N°1 N°2 N°3 N°4 N°5 N°3						
Description of Hatchway						
Dimensions of Hatchway						
COAMINGS						
Height above Deck						
Thickness						
Sides						
Stiffeners						
Brackets, Stays						
HATCH BEAMS						
Number						
Spacing						
Scantling and Sketch						
Bearing Surface						
FORE AND AFTERS						
Number						
Spacing						
Unsupported Lengths						
Scantling* and Sketch						
Bearing Surface						
HATCH COVERS						
Material						
Thickness						
How fitted						
Bearing Surface						
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						

Particulars of Scuppers and Sanitary Discharge Pipes:— 8 scuppers cut through gunwale angle in well DK. 2-2½" diam & 2-3½" diam scuppers from well deck 2'-6" below freeboard DK. No storm valves fitted. 2 scuppers from Bridge Luv. DK space, 12" below freeboard DK. No storm valves fitted. ✓
Loose pipes below freeboard deck fitted with G.M. storm valves. ✓
6 scuppers from Bridge deck, above freeboard deck. ✓

Particulars of Side Scuttles:— No side scuttles below freeboard deck. ✓

All side scuttles are of substantial construction and fitted with hinged deadlights. ✓

Particulars of Guard Rails:— Steel bulwarks on freeboard deck in wells 3'-11" high and for 24'-0" each end of Bridge deck 3'-0" high efficiently constructed and supported. ✓

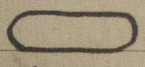
Guard rails on poop, forecastle, and between steel bulwarks on bridge 3'-0" high, with three rods and stanchions spaced 5'-3". ✓

Particulars of Gangways, Lifelines, etc.:—

None

Lifelines are provided in the foreward and after wells port to star.

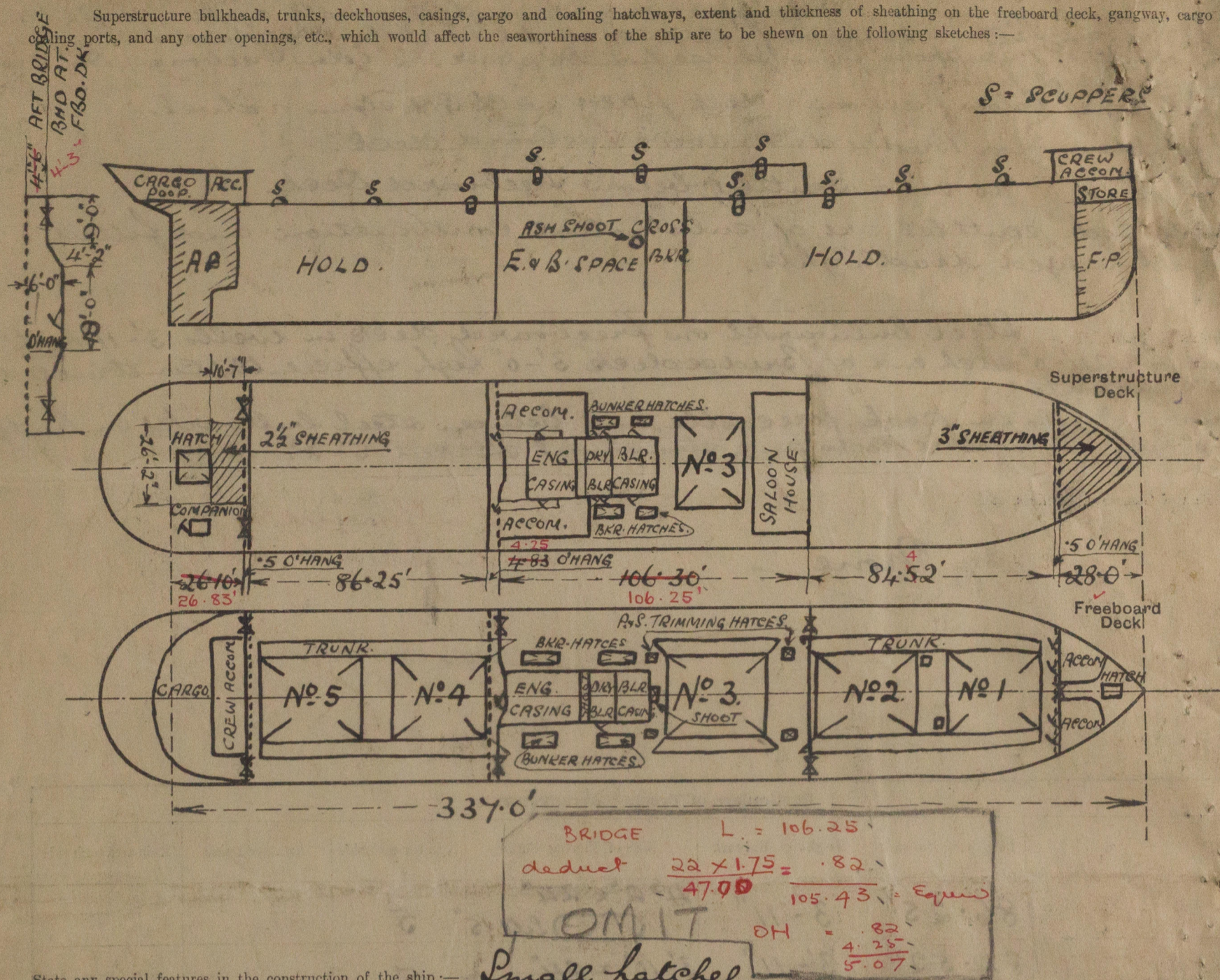
Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well ...	86.25'	3'-11"	4'-2" x 24"  Ell 15"	5	37.40	17.25
Forward Well ...	84.52'	3'-11"	3'-10" x 24" Ell 14½"	5	34.0	16.88
State position of each freeing port (F. and A. position and height above deck edge) } After Well:— 8'-4", 20'-0", 38'-0", 56'-3" & 68'-8" from Bridge Aft b. head. Forward Well:— 13'-0", 25'-0", 37'-6", 47'-8", & 64'-0" from Bridge front. State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— 4 hinged steel doors, fitted with brass bushes & 1 open rails, 2 rods spaced 8" apart. ✓ 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 ...	38 ✓	38 ✓	6x3x38 L ^s	28"	4 lugs top & bottom, 3 rivets.	2-3'-0" x 4'-6"	24"	✓
Raised Quarter Deck Bulkhead ...	✓	✓	✓	✓	✓	✓	✓	✓
Bridge, After Bulkhead ...	✓	38 ✓	6x3x40 L ^s	36"-32"	none	2-3'-0" x 4'-6"	24"	✓
Bridge, Forward Bulkhead ...	42 ✓	38 ✓	8½x3x48 BA ^s	27"-30"	Brackets at top.	2-3'-0" x 4'-6"	24"	✓
Forecastle Bulkhead ...	✓	26 ✓	6x3x35 L ^s	30"	none	1-3'-0" x 4'-6"	22"	✓
Trunk, Aft ...	82, 24" x 60" DOUBLING	✓	7x3½x44 BA ^s	4'-4½"	Bracketed to frames & beam.	4-22" x 4'-0"	18"	✓
Trunk, Forward ...	✓	✓	✓	✓	✓	✓	✓	3'-6" 2'-6" (between hatchways).
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	38 ✓	30 ✓	3x3x38 L ^s					

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:—

Small hatches
On Poop Deck to A.P. & Store 10'-0" x 8'-0". Coaming 30" x 44" (no beams or F.A.) Hatch covers 2 1/2" WP, F.V.A., rest bar 3", 2 tarpaulins, 2" x 1/2" locking bar. Cleats 22" sp.
On Trunk between 1st main hatchway - access to Hold ladder - 1 P & S. 2'-0" x 2'. Coaming 9 x 3 x 58 BA. Hatch cover 2 1/2" WP, rest bar 2". 8 cleats, 2 tarpaulins.
On Fiddle casing to coal shoot - 16'-3" x 8'-4". Coaming 9" x 3" x 50 BA. Hatch covers 2 1/2" WP, F.V.A., rest bar 3". Cleats spaced 20". 1 Hatch beam 9 x 3 x 52 BA. 2 tarpaulins.
On Bridge Deck - Side bunker hatch - 1 P & S - 10'-3 1/2" x 34 1/2". Coaming 32" x 38". Hatch covers 2 1/2" WP, thwartship, rest bar 3", cleats sp. 22". 2 tarpaulins.
Ditto - 1 P & S. 5'-9" x 1'-4 1/2".
Freeboard Deck
Under Fore Lead, to F.P. & chain locker - 3'-7" x 1'-4". Coaming 12" x 26". Hatch covers 2 1/2" WP, F.V.A., rest bar 2". 10 cleats, 1 tarpaulin.
In Bridge Tween Deck - 4 trimming hatches 24" x 22". Coaming 9 1/2" x 3 1/2" x 52. fitted with strong hinged 2 1/2" wood covers secured by 4 eye bolts & butterfly nuts.
To lower side bunker - 1 P & S. 8'-6" x 3'-0", and 1 P & S. 10'-6" x 3'-0". Coaming 9 1/2" x 3" x 52 BA. Hatch covers 3" WP, thwartship, rest bar 3". Cleats sp. 18". 1 tarpaulin.
Coal shoot to Storehold - 3'-0" x 25". 3" rest. 11 cleats, 2 1/2" WP. Hatch cover. 1 tarpaulin.

Vessel measured afloat whilst laid up.

DRAFT.	DEADWEIGHT SALT WATER.
21'-8"	5570
21'-0"	5330
20'-6"	5130
20'-0"	4930

Builder's name and yard number R. Thompson & Sons, Ltd.

Names of sister ships

Owners Mervyn Steam Shipping Co. Ltd. Managers - Martyn, Martyn & Co. Ltd.

Fee £ 11 : 18 : 0

Received by me

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