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Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

-4 NOV 1932

Computation of Freeboard for Steamer, Sailing Ship, Tanker
 having Forecastle on upper Deck. MUT LK 30/3/48

(Type of Superstructures.)

Ship's Name "SCILLONIAN" Nationality and Port of Registry British Scilly Official Number 79115 Gross Tonnage 1135 Date of Build 1926-1.

Moulded Dimensions: Length 169.8 Breadth 28.5 Depth 12.0

Moulded displacement at moulded draught = 85 per cent. of moulded depth 859 tons

Coefficient of fineness for use with Tables .609 .68 lowest allowed.

Port of Survey Penzance

Date of Survey 2/11/32.

Name of Surveyor Rehffitt & A. Scullard

Particulars of Classification +100 A1.

S.S. Pm Nov 29 ✓

Depth for Freeboard (D)

Moulded depth 12.00

Stringer plate03

Sheathing on exposed deck 3

$T \left(\frac{L-S}{L} \right) = .25 \times .6702 = .17$

Depth for Freeboard (D) = 12.20

Depth correction

(a) Where D is greater than Table depth
 (D - Table depth) R = $(12.20 - 11.32) 1.306 = 1.15$

(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) 28.5

Standard Round of Beam = $\frac{B \times 12}{50} = 6.84$

Ship's Round of Beam = 7.2

Difference .66

Restricted to

Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.66^2}{4} \times .7726 = -.13$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
Forecastle enclosed ...	<u>21.25</u>	<u>21.25</u>	<u>7.0</u>		<u>21.25</u>
" overhang ...	<u>34.75</u>	<u>17.37</u>			<u>17.37</u>
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	<u>56.00</u>	<u>38.62</u>			<u>38.62</u>

Standard Height of Superstructure 6.00

" " R.Q.D.

Deduction for complete superstructure 22.98

Percentage covered $\frac{S}{L} = 32.98$

" " $\frac{S_1}{L} = 22.74$

" " $\frac{E}{L} = 22.74$

Percentage from Table, Line A. 11.37
 (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 = - 2.61

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	<u>26.98</u>	1		<u>26.98</u>	<u>30.00</u>	<u>26.98</u>	1		<u>26.98</u>
$\frac{1}{2}$ L from A.P. ...	<u>12.00</u>	4		<u>48.00</u>	<u>13.43</u>	<u>12.00</u>	4		<u>48.00</u>
$\frac{2}{3}$ L " ...	<u>2.97</u>	2		<u>5.94</u>	<u>3.36</u>	<u>2.97</u>	2		<u>5.94</u>
Amidships ...		4					4		
$\frac{2}{3}$ L from F.P. ...	<u>5.94</u>	2		<u>11.88</u>	<u>5.43</u>	<u>5.43</u>	2		<u>10.86</u>
$\frac{1}{2}$ L " ...	<u>24.01</u>	4		<u>96.04</u>	<u>21.72</u>	<u>21.72</u>	4		<u>86.88</u>
F.P. ...	<u>53.96</u>	1		<u>53.96</u>	<u>51.00</u>	<u>51.00</u>	1		<u>51.00</u>
Total ...				<u>242.80</u>					<u>229.66</u>

Mean actual sheer aft = Excess

Mean standard sheer aft

Mean actual sheer forward = Deficient

Mean standard sheer forward

Length of enclosed superstructure forward of amidships =

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{13.14}{18} (.75 - .1649) = +.43$

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 = 12.28 Ft.
 Summer freeboard = 2.52
 Moulded draught (d) = 9.76

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

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

$d/4 = 2.44$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction ...	<u>1.15</u>	
Deduction for superstructures ...		<u>2.61</u>
Sheer correction ...	<u>.43</u>	
Round of Beam correction ...		<u>.13</u>
Correction for Thickness of Deck amidships ...	<u>.96</u>	
Other corrections, scantlings, etc. ...	<u>12.18</u>	
to correct to approved subdivision ...	<u>14.72</u>	<u>2.74</u>
Summer Freeboard = <u>30.25</u>		

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel Deck:

Tropical Fresh Water Line above Centre of Disc ...	<u>2 1/2</u>	Tropical Fresh Water Freeboard ...	<u>2 - 3 3/4</u>
Fresh Water Line " ...	<u>2 1/2</u>	Fresh Water " ...	<u>2 - 3 3/4</u>
Tropical Line " ...	<u>NIL</u>	Tropical " ...	<u>2 - 6 1/4</u>
Winter Line below " ...	<u>NIL</u>	Winter " ...	<u>2 - 6 1/4</u>
Winter North Atlantic Line " ...	<u>NIL</u>	Winter North Atlantic " ...	<u>2 - 6 1/4</u>

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway			Upper Deck.				Shade. Dk.		
Dimensions of Hatchway			10'-2" x 11'-0"				10'-2" x 11'-0"		
COAMINGS	<div> <div>Height above Deck ...</div> <div>Thickness { Sides ... Ends ...</div> <div>Stiffeners ...</div> <div>Brackets, Stays ...</div> </div>	30" to Wood				19" to Wood			
		.44				.44			
		.44				.44			
		7" x 3" BA							
HATCH BEAMS	<div> <div>Number ...</div> <div>Spacing ...</div> <div>Scantling and Sketch</div> </div>	1				1			
		10'-1" from aft.							
		Bearing Surface ...							
FORE AND AFTERS	<div> <div>Number ...</div> <div>Spacing ...</div> <div>Unsupported Lengths</div> <div>Scantling* and Sketch</div> </div>	1				1			
		9'-7"				9'-7"			
						20 for			
		Bearing Surface ...				Upper Dk.			
HATCH COVERS	<div> <div>Material ...</div> <div>Thickness ...</div> <div>How fitted</div> <div>Bearing Surface ...</div> </div>	Wood				Wood			
		2 1/2"				2 1/2"			
		Thwart				Thwart			
		3"				3"			
Spacing of Cleats			23"				24"		
Number of Tarpaulins			12				2		
<div> <div>*Are wood fore and afters steel shod at all bearing surfaces?</div> <div>Are battens and wedges efficient and in good condition?</div> <div>Are tarpaulins in good condition and in accordance with rule requirements?</div> <div>Are lashings provided in accordance with rule requirements?</div> </div> <div> <div>yes</div> <div>yes</div> <div>yes</div> <div>yes</div> </div>									

Particulars of fiddle, funnel and ventilator coamings:— *Stokehold gratings covered by hinged steel plates on raised steel coaming. Engine room Sky light steel. Cabin skylights wood.*

Particulars of Flush Bunker Scuttles:— *2. P & S with bayonet fittings 16" diameter*

Particulars of Companionways:— *Engine room and Stokehold doors hinged steel 13" sills. Cabin Entrances & access to lower cabin aft:— double hinged doors of wood 13" sills.*

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

<i>Fore</i>	<i>3 @ 6" dia 36" high</i>	<i>Stokehold & Engine room.</i>	<i>aft: 1 @ 12" dia 30" high</i>
<i>Hold</i>	<i>2 @ 10" " 36" "</i>	<i>1 @ 20" dia 36" high</i>	<i>2 @ 9" " 30" "</i>
<i>Hold</i>	<i>2 @ 12" " 30" "</i>	<i>2 @ 15" " 30" "</i>	<i>5 @ 12" " 30" high</i>
		<i>1 @ 12" " 32" "</i>	<i>{ on upper deck }</i>

Ventilators supported at shade Dk. Coamings measured above shade Dk. Efficient closing provided

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

<i>F. Peak.</i>	<i>3 1/2" dia 10 1/2" high</i>	
<i>aft.</i>	<i>2 1/2" " 38" "</i>	<i>Covers provided</i>
<i>DB Tank</i>	<i>3 1/2" " 18" "</i>	

Particulars of Gangway Cargo and Coaling Ports:— *1 P & S above upper deck with double hinged doors - 7'-6" x 5'-3" secured by slip bolts and bolted to two strong backs of channel section.*



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Particulars of Scuppers and Sanitary Discharge Pipes:—

Deck Scuppers 5 P.S. 2'6" below deck. Storm valves fitted.
Soil Pipes:— 6 P.S. aft 2'6" below deck. Storm valves fitted.
1 Port forecattle. " " " " " "

Particulars of Side Scuttles:—

4 P.S. in F'cle. hinged glasses and hinged deadlights fitted.

Particulars of Guard Rails:—

4 Rails & Stanchions on Shade deck, 3'6" high 4 feet apart

Particulars of Gangways, Lifelines, etc.:—

none.

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 ... }	113.8 115 ft.	3'6"	32" x 18"	4	16 1/4	22.7 1/2
State position of each freeing port ... } After Well:— (E. 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.						
			24'9" 23'0" 23'0" 15'0"		8 1/2" above deck shutters and two rails.	

Particulars of Superstructures, Trunks, Casings, Deckhouses.

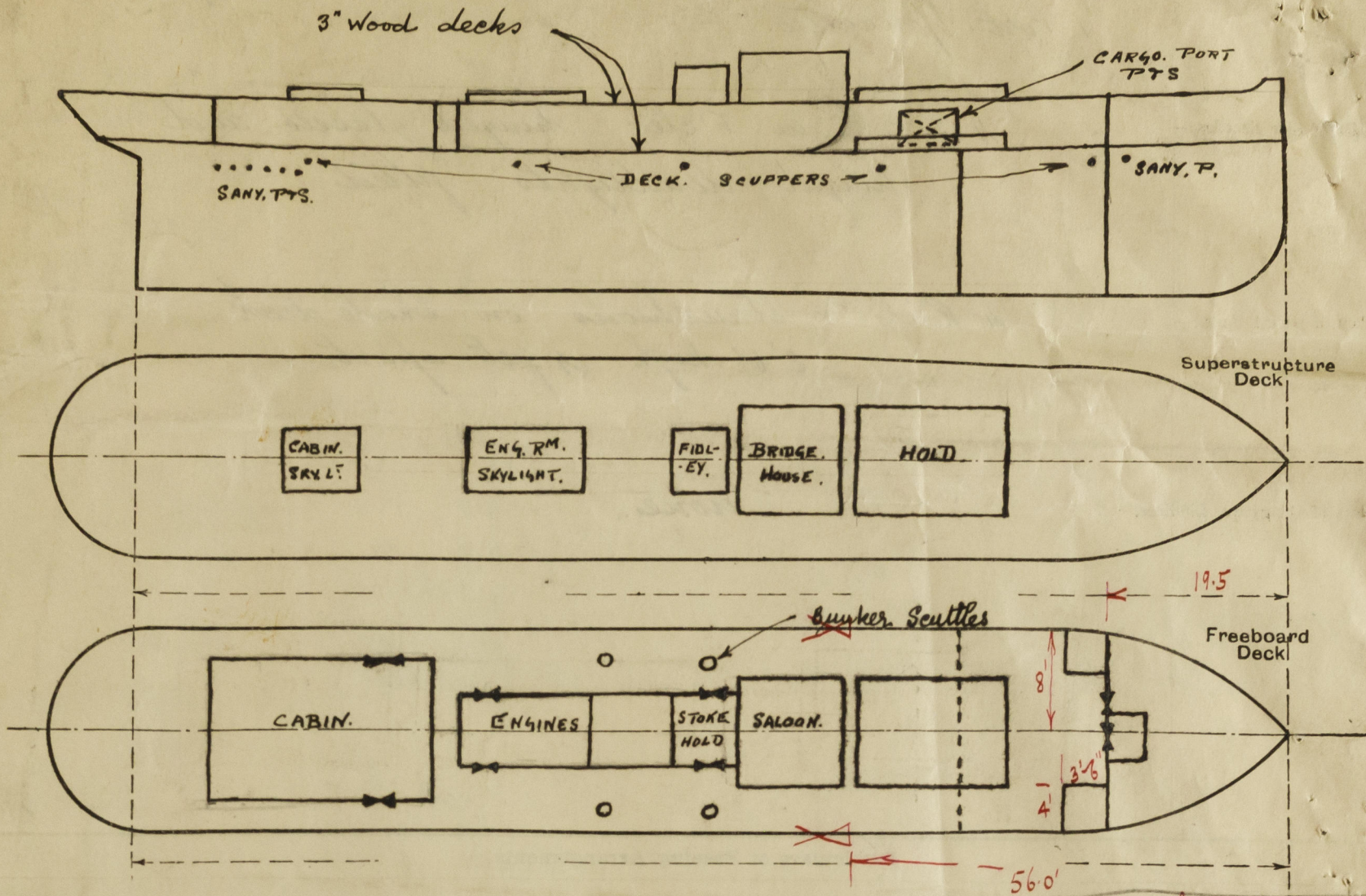
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ...								
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead ...								
Bridge, Forward Bulkhead ...								
Forecastle Bulkhead ...	7/16	1/4	2 1/2 x 2 1/2 x 7/16	32"	none	4'10" x 1'11"	13"	7'0"
Trunk, Aft ...								
Trunk, Forward ...								
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...		1/4	4 x 2 1/2 x 7/16	29"	none	5'1" x 2'0"	13"	7'0"
Exposed Machinery Casings on Superstructure Decks ...								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...			4 x 2 1/2 x 7/16					
Deckhouses on Flush Deck Ships ...	1/4		5 x 3 x 3/8 T	30"	none	5'0" x 3'0"	13"	7'0"

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 ...	Wood hinged door manipulated both sides
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	Steel hinged doors in halves manipulated both sides
Exposed Machinery Casings on Superstructure Decks ...	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	
Deckhouses on Flush Deck Ships ...	Wood hinged doors (double) to cabin manipulated both sides

Scillonian

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:—



Forecastle 19.5
 $+ 4 \times 3.5 = 1.75$
 $\frac{8}{21.25}$
 $\frac{56.00}{77.25}$
 77.25 04

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

Vessel examined in dry dock for condition.

amr

Builder's name and yard number *Ailsa Shipbuilding Co Ltd*

Names of sister ships

OWDERS *Isles of Scilly S S Co Ltd*

E. M. V. Moyle Managers

Fee £ *5 : 2 : 0*

Received by me

Expenses 7/10.

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