

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

No 31059

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

Raised Quarter Deck &amp; Forecastle.

Port of Survey Sunderland

(Type of Superstructures.)

Date of Survey 5<sup>th</sup> October '32.

Name of Surveyor H.L. Swinton

Ship's Name

"ROSALIE"

Nationality and Port of Registry

British  
Sunderland

Official Number

122842

Gross Tonnage

320.

Date of Build

1906

Moulded Dimensions: Length

134' ✓

Breadth

24' ✓

Depth

11' 25' ✓

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

621.

tons

Coefficient of fineness for use with Tables

.707 ✓

Particulars of Classification + 100 A1.

S.S. Sld No. 3-10-19

S.S. Sld No. 2-29 ✓

## Depth for Freeboard (D)

Moulded depth ... .. 11' 25'

Stringer plate \*58" INCLUDING ...

DOUBLING FORE &amp; AFT .05

Sheathing on exposed deck

T (L-S)

=

Depth for Freeboard (D) = 11' 30'

## Depth correction

(a) Where D is greater than Table depth

(D-Table depth) R = (11' 30' - 8' 9") 1.031

= + 2.44"

(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)

24'

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

5.76"

Ship's Round of Beam =

6"

Difference

.24" excess

Restricted to

Correction =  $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L})$ =  $\frac{.24}{4} \times .4865 = -.03$ 

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ... ..					
" overhang ... ..					
R.Q.D. enclosed ... ..	49.52	49.52	3.0	3.00	46.04
" overhang ... ..	1.00	.50		3.227	46
Bridge enclosed ... ..					
" overhang aft ... ..					
" overhang forward ... ..					
F'cle enclosed ... ..	17.58	17.58	6.75	17.58	17.58
" overhang ... ..	2.75	1.26			1.26
Trunk aft ... ..	2.42				
" forward ... ..					
Tonnage opening aft ... ..					
" " forward ... ..					
Total ... ..	70.52	68.81			65.29

Standard Height of Superstructure

6.00'

" " R.Q.D.

3.227'

Deduction for complete superstructure

19.40"

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

52.64%

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

51.35%

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

48.72%

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

30.91% ✓

Percentage from Table, Line B.

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = 19.40 x .3091 = - 6.00"

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ... ..	23.40	1		23.40	26.00	23.40	1		23.40
$\frac{1}{2}$ L from A.P. ... ..	10.44	4		41.64	15.80	10.44	4		41.64
$\frac{2}{3}$ L " ... ..	2.57	2		5.14	3.97	2.57	2		5.14
Amidships ... ..	✓	4		✓	✓	✓	4		✓
$\frac{2}{3}$ L from F.P. ... ..	5.15	2		10.30	4.44	4.44	2		8.88
$\frac{1}{2}$ L " ... ..	20.82	4		83.28	17.77	17.77	4		71.08
F.P. ... ..	46.80	1		46.80	42.00	42.00	1		42.00
Total ... ..	210.60			210.56					192.14

Correction =  $\frac{\text{Difference between sums of products}}{18}$  $(.75 - \frac{S}{2L}) = \frac{18.42}{18} (.75 - \frac{263.5}{1360}) = + .50"$ 

If limited on account of midship superstructure. ✓

If limited to maximum allowance of 1½ ins. per 100 ft. ✓

## Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck =

Summer freeboard =

Moulded draught (d) =

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches =

Addition for Winter North Atlantic Freeboard (if required) =

## 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

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

1.36

Depth Correction ... ..

Deduction for superstructures ... ..

Sheer correction ... ..

Round of Beam correction ... ..

Correction for Thickness of Deck amidships ... ..

Other corrections, scantlings, etc. ... ..

+

-

2.44

6.00

.50

.03

-

-

2.94

6.03

-3.09

Summer Freeboard = 10.66

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

Tropical Fresh Water Line above Centre of Disc ... ..

Fresh Water Line " " ... ..

Tropical Line " " ... ..

Winter Line below " " ... ..

Winter North Atlantic Line " " ... ..

Tropical Fresh Water Freeboard ... ..

Fresh Water " " ... ..

Tropical " " ... ..

Winter " " ... ..

Winter North Atlantic " " ... ..

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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS											
Description of Hatchway ... ..			N:1.	N:2							
Dimensions of Hatchway ... ..			15'9" x 15'0"	31'6" x 16'0"							
COAMINGS	Height above Deck ...		36"	36"							
	Thickness ...	Sides	33"								
	Stiffeners ...	Ends	36"								
	Brackets, Stays ...	B.P.	NONE								
HATCH BEAMS	Number ...										
	Spacing ...										
	Scantling and Sketch ...										
Bearing Surface ...											
FORE AND AFTERS	Number ...										
	Spacing ...										
	Unsupported Lengths Scantling* and Sketch ...										
Bearing Surface ...											
HATCH COVERS	Material ...		W.P.	W.P.							
	Thickness ...		2 1/2"	2 1/2"							
	How fitted ...		ATHW.	ATHW.							
	Bearing Surface ...		1 7/8"	1 7/8"							
Spacing of Cleats ...			24"	24"							
Number of Tarpaulins ...			3.	3.							
<p>*Are wood fore and afters steel shod at all bearing surfaces? No.</p> <p>Are battens and wedges efficient and in good condition? Yes.</p> <p>Are tarpaulins in good condition and in accordance with rule requirements? Yes.</p> <p>Are lashings provided in accordance with rule requirements? Yes.</p>											

Particulars of fiddle, funnel and ventilator coamings:—

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

Particulars of Flush Bunker Scuttles:—

Gone.

Particulars of Companionways:—

Gone.

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

2 on Side dk. 8" dia. Coam 15 x 28 to Crew.  
1 on Fore dk. 12" dia. Coam 36 x 36 to hold. ~~Coam to be renewed.~~  
1 " " aft 12 " ~~Coaming to be renewed.~~

Wood plugs & canvas covers provided.

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

on Side 2" dia. 8" above dk. to fore peak tank.  
Wood plug & canvas cover provided.

Particulars of Gangway Cargo and Coaling Ports:—

Gone.



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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS				
Description of Hatchway	N. 1.	N. 2.		
Dimensions of Hatchway	15' 9" x 15' 0"	31' 6" x 16' 0"	N. 1.	N. 2.
COAMINGS	Height above Deck ... 36" Thickness { Sides ... 33 { Ends ... 36 Stiffeners ... NONE. Brackets, Stays ... 1.	Height above Deck ... 36" Thickness { Sides ... 45 { Ends ... 40 Stiffeners ... NONE. Brackets, Stays ... 3.		
HATCH BEAMS	Number ... 1. Spacing ... 6' 3" / 9' 6" Scantling and Sketch Bearing Surface ... 2 1/2 x 1 1/2 x 1/2 Cps.	Number ... 3. Spacing ... 7' 6", 9' 3", 9' 3", 5' 6". Scantling and Sketch Bearing Surface ... 3 1/2 x 3 1/2	Position of hatch webs.	
FORE AND AFTERS	Number ... 3. Spacing ... 4' 0" / 3' 6" Unsupported Lengths ... 5' 9" - 9' 0" Scantling* and Sketch Bearing Surface ... 2 1/2 x 2 1/2 x 1/2 Cps.	Number ... 3. Spacing ... 4' 0" / 3' 6" Unsupported Lengths ... 7' 0", 8' 9", 8' 9", 5' 0" Scantling* and Sketch Bearing Surface ... 2 1/2 x 2 1/2 x 1/2 Cps.	Coaling hatchways on R. O. D. 1 part. 1. Starboard 3' 3" x 2' 0". Coam. 23 x 36. Cover 2 1/2 W. P. Bearing 1 7/8". Cleats 22' apart. Tarp. 2.	
HATCH COVERS	Material ... W. P. Thickness ... 2 1/2" How fitted ... AT H. W. Bearing Surface ... 1 7/8".	Material ... W. P. Thickness ... 2 1/2" How fitted ... AT H. W. Bearing Surface ... 1 7/8".		
Spacing of Cleats	24	24		
Number of Tarpaulins	3.	3.		

\*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.*



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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	...	...	N. 1.	N. 2.					
Dimensions of Hatchway	...	...	15' 9" x 15' 0"	31' 6" x 16' 0"					
COAMINGS	Height above Deck	...	36"	36"					
	Thickness Sides	...	3/4"						
	Thickness Ends	...	3/4"						
	Stiffeners	...	3/4"						
HATCH BEAMS	Number	...	1						
	Spacing	...							
	Scantling and Sketch	...							
	Bearing Surface	...							

Breaker hatchway on casing top.  
4' 3" x 12' 6" casing 5' 3" x 10' 3" R.R.  
over 2' 6" bearing 2' 6" cleats 24"  
Sagittarius 1.

Hatchway on R.P.D. to after peak.  
2' 0" x 2' 4" casing 18' 2" x 30"  
2' 6" bearing 2' 6" cleats 18"

## Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD.

Rpt. C.11.

Index. No.  
(For London Office only.)  
19 OCT 1932

Computation of Freeboard for Steamer, Sailing Ship, Tanker  
having Raised quarter deck to foremast

Port of Survey Sunderland

Date of Survey 17<sup>th</sup> Oct. 1932

Name of Surveyor H. L. Swinton

Particulars of Classification 100 AL

Ship's Name S. S. "ROSALIE"  
Nationality and Port of Official Number  
Registry

Moulded Dimensions: Length Breadth Depth  
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons  
Coefficient of fineness for use with Tables

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50}$ =
Stringer plate	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Ship's Round of Beam =
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$		Difference
Depth for Freeboard (D) =	If restricted by superstructures	Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S}{L} \right) =$

### DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	Standard Height of Superstructure
Poep enclosed					R.Q.D.
" overhang					
" R.Q.D. enclosed					
" overhang					
Bridge enclosed					
overhang aft					

### Particulars of Scuppers and Sanitary Discharge Pipes:—

Scuppers from freeboard & R.P.D. Deck led this stringer bar above dk.  
Sanitary discharges from officers & crews etc., in gile wing houses  
led this ship's side below grub dk. with efficient storm valves.

### Particulars of Side Scuttles:—

Side scuttles in side 9" dia. fitted with hinged deadlights.  
all of substantial construction.

### Particulars of Guard Rails:—

Guard rails on side dk. 3' 3" high 2 rods. Stanchions 4' 3" apart.  
Steel bulwarks in well 3' 6" high & on R.P.D. 2' 10" high strongly  
constructed & efficiently supported.

### Particulars of Gangways, Lifelines, etc.:—

No lifelines provided.

Provision made for rigging lifelines in the forward  
well for the use of the crew in the regular  
working of the ship. Hatch top used as platform with  
gangway between hatchways also at fore end from  
hatch to forecastle bulkhead.

### Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
R.P.D. Bulwark	50' 52"	2' 10"	2' 3" x 1' 3"	2	5.62 sq	11.55 #
Forward Well	63' 48"	3' 6"	2' 3" x 1' 5"	3	9.58 sq	12.69 #

State position of each freeing port ... After Well:— R.P.D. 0' 3", 24' 0",  
(F. and A. position and height above deck edge) Forward Well:— 0' 6", 20' 6", 35' 9",  
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
Poep Bulkhead			2 diaphragms at hatch sides &c					
Raised Quarter Deck Bulkhead	36"	3' 3" x 40' ang.	48"	None	17' 13"	12"		
Bridge, After Bulkhead	25"	3' 3" x 30' ang.	30"	None	None			
Bridge, Forward Bulkhead								
Forecastle Bulkhead	25"	3' 3" x 25' ang.	24"	None	2' 8" x 1' 10"	19"		
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Deck	18' x 36"	26"	22' x 22' x 10' ang.	32"	None	4' 0" x 1' 10"	20"	6' 9"
Exposed Machinery Casings on Superstructure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships								

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

Poep Bulkhead	
Raised Quarter Deck Bulkhead	Rolled plate manhole door. Top lifts this 8' 4" apart 4" apart.
Bridge, After Bulkhead	
Bridge, Forward Bulkhead	
Forecastle Bulkhead	Steel hinged doors. Fastening arrangement not satisfactory.
Exposed Machinery Casings on Freeboard or Raised Quarter Deck	D. D. D. D. D.
Exposed Machinery Casings on Superstructure Decks	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	
Deckhouses on Flush Deck Ships	

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

on side 2" dia. 8" above dk. to fore peak tank.  
Wood plug ~~was~~ provided.

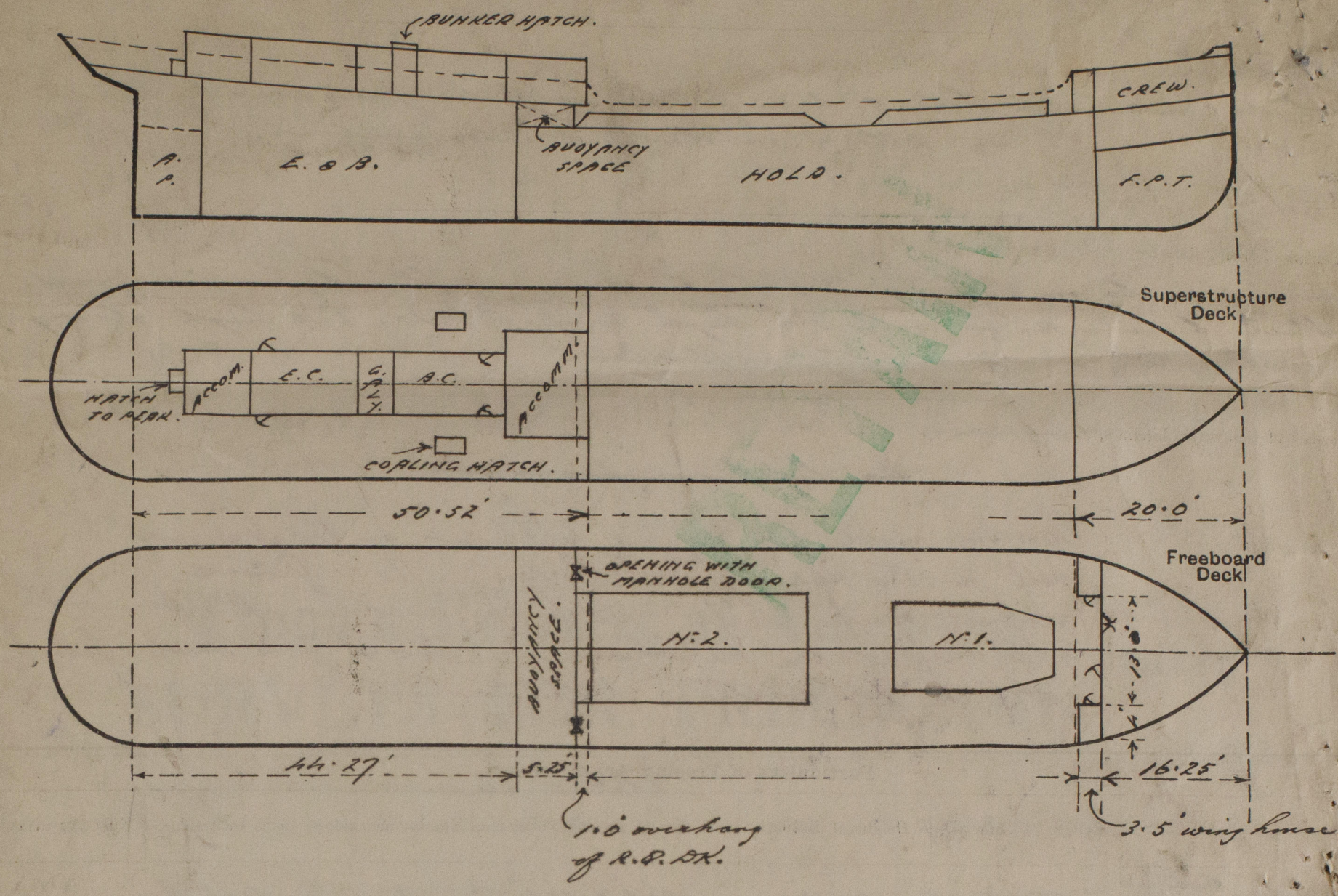
### Particulars of Gangway Cargo and Coaling Ports:—

None.



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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 shewn on the following sketches:—



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

Fore castle	16.25	20.00
S. House	3.5 x 4.00	17.58
	10.5	2.42
	17.58 eqd.	

Vessel examined in dry dock whilst undergoing 2<sup>nd</sup> S.S. W.S. which is expected to be completed at this port.

Builder's name and yard number Godt S.B. & Papp. C. L.

Names of sister ships ✓

Owners East Coast Timber Co. Ltd (J.G. Irving Ltd Mgrs.)

Fee £ 5 : 2 : 0. Received by me [Signature]