

# Lloyd's Register of Shipping

## SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Ship's Name <b>S/S OSWIN</b>	Official Number <b>5402</b>	Nationality and Port of Registry <b>Swedish Helsingborg</b>	Date of Build <b>1913-2. Rebuilt 1942-4.</b>	Period of Survey <b>Galtenburg</b>
Moulded Dimensions: Length <b>235.0</b>	Breadth <b>37.5</b>	Depth <b>18.58</b>	Date of Survey <b>24/3 - 8/4 1942</b>	
Moulded displacement at moulded draught = 30 per cent. of moulded displacement <b>3089</b>			Surveyor's Signature <b>G. Hirsjovirt</b>	
Coefficient of fineness for use with Tables <b>.777</b>			Particulars of Load <b>* 100 G.I. With freeboard.</b>	

Depth for Freeboard (D)		Depth correction		Ratio of Breadth to Depth	
Moulded depth	<b>18.58</b>	a) Where D is greater than Table depth (D - Table depth) R	<b>(18.58 - 18.47) x 1.807 = +5.33</b>	Moulded Breadth (B)	<b>37.5</b>
Stringer plate	<b>.04</b>	b) Where D is less than Table depth (Table depth - D) R		Standard Round of Beam	<b>9.0</b>
Sheathing or exposed deck				Ship's Round of Beam	<b>9.5</b>
				Difference	<b>0.5</b>
Depth for Freeboard (D)	<b>18.62</b>	If restricted by superstructures		Restricted to	<b>9.6</b>
				Correction	<b>5.33 x .0088 = .047</b>

DEDUCTION FOR SUPERSTRUCTURES						Standard Height of Superstructure	
	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	R.Q.	
Poop enclosed	<b>16.33</b>	<b>16.33</b>	<b>7.04</b>		<b>16.33</b>		<b>4'-0"</b>
" overhang	<b>0.08</b>	<b>0.04</b>			<b>0.04</b>		
R.Q.D. enclosed							<b>29.5'</b>
" overhang							
Bridge enclosed	<b>214.42</b>	<b>214.42</b>	<b>7.04</b>		<b>214.42</b>		
" overhang aft	<b>0.08</b>	<b>0.06</b>			<b>0.06</b>		
" overhang forward							
Fore enclosed							
" overhang							
Front aft							
" forward	<b>4.09</b>	<b>4.09</b>			<b>1.93</b>		
Tonnage opening aft					<b>2.07</b>		
" forward							
Total	<b>235.00</b>	<b>235.00</b>			<b>235.00</b>		

SHEER CORRECTION							
Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	<b>33.50</b>	<b>1</b>	<b>33.50</b>	<b>+12.5</b>	<b>50.5</b>	<b>1</b>	<b>50.50</b>
1/4 to A.P.	<b>44.91</b>	<b>4</b>	<b>59.64</b>	<b>15.5</b>	<b>22.47</b>	<b>4</b>	<b>89.88</b>
1/2 to "	<b>2.18</b>	<b>2</b>	<b>7.36</b>	<b>3.5</b>	<b>5.56</b>	<b>2</b>	<b>11.12</b>
Aft to shape		<b>4</b>		<b>0.0</b>		<b>4</b>	
1/4 from F	<b>7.36</b>	<b>2</b>	<b>14.72</b>	<b>7.0</b>	<b>9.20</b>	<b>2</b>	<b>18.40</b>
1/2 to "	<b>29.92</b>	<b>4</b>	<b>119.68</b>	<b>29.0</b>	<b>37.00</b>	<b>4</b>	<b>148.00</b>
F	<b>67.00</b>	<b>1</b>	<b>67.00</b>	<b>72.0</b>	<b>84.60</b>	<b>1</b>	<b>84.60</b>
Total			<b>215.00</b>	<b>112.5</b>			<b>405.00</b>
Correction = Difference between sum of products				<b>101.50</b>	<b>18</b>	<b>101.50 x .25 = -1.44</b>	

Deduction for Tropical Freeboard		Deduction for Freeboard		TABLE FOR FREEBOARD	
Addition for Winter and Winter North Atlantic Freeboard					
Depth of Freeboard Deck	<b>18.62</b>		<b>3596</b>		<b>29.40</b>
Depth of Freeboard	<b>0.52</b>				<b>31.50</b>
Depth of Freeboard	<b>18.10</b>		<b>17.79</b>		
Depth of Freeboard	<b>5.52</b>		<b>115</b>		
Depth of Freeboard	<b>5.05</b>		<b>128</b>		
Depth of Freeboard	<b>5.1 + 115 = 120</b>				

19 MAY 1942

236  
128  
108  
118  
166



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A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the surveyor should endorse the form on this side with his signature and the date.

Displacement in salt water and tons per inch immersion.

<u>Allowed draught</u>	<u>Displacement</u>	<u>Tons/inch</u>
90% = 16.72	3305 tons	1765
95% = 17.05'	3500 "	1775
100% = 18.53'	3695 "	1735

of ship

of sister ships

name and yard number



34133

14 MAY 1942

## PARTICULARS OF PROTECTION TO OPENINGS ETC.

		Hatchways on Freeboard and Superstructure Decks						COAL HATCHES	
Description of Hatchway		← UPPER DECK →		← 2nd Deck →				UPPER DECK	2nd DECK
Dimensions of Hatchway		M11	M1203	M14	M1144	M12	M13		
Height above Deck		19'3" 17'2"	21'8" 17'2"	19'3" 17'2"	19'2" 17'2"	25'2" 17'2"	21'2" 17'2"	20'2" 4"	17'3" 2'9"
COAMINGS	Thickness	36"	36"	36"	36"	36"	36"	36"	36"
	Stiffeners	2 180 x 75 x 12	2	1	✓	✓	✓	✓	✓
	Ends	✓	✓	✓	✓	✓	✓	✓	✓
	Sides	✓	✓	✓	✓	✓	✓	✓	✓
HATCH BEAMS	Number	3	3	3	3	3	3	✓	✓
	Spacing	4'-9 3/4"	5'-3 1/2"	4'-9 3/4"	4'-9 3/4"	5'-0 3/8"	5'-0 3/8"	✓	✓
	Scantling and Sketch	75 x 75 x 10 L	75 x 75 x 10 L	75 x 75 x 10 L	75 x 75 x 10 L	75 x 75 x 10 L	75 x 75 x 10 L	✓	✓
	Bearing Surface	✓	✓	✓	✓	✓	✓	✓	✓
FORE AND AFTERS	Number	✓	✓	✓	✓	✓	✓	✓	✓
	Spacing	✓	✓	✓	✓	✓	✓	✓	✓
	Unsupported Lengths	✓	✓	✓	✓	✓	✓	✓	✓
	Scantling and Sketch	✓	✓	✓	✓	✓	✓	✓	✓
HATCH COVERS	Material	Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood
	Thickness	3"	3"	3"	3"	3"	3"	3"	3"
	How fitted	fore and aft	fore and aft	fore and aft	fore and aft	fore and aft	fore and aft	fore and aft	fore and aft
	Bearing Surface	✓	✓	✓	✓	✓	✓	✓	✓
Spacing of Cleats		8'3" 15'	8'3" 15'	8'3" 15'	8'3" 15'	8'3" 15'	8'3" 15'	8'3" 15'	8'3" 15'
Number of Turnbuckles		2	2	2	2	2	2	2	2
Are wood fore and afters steel shod at all bearing surfaces?		✓							
Are turnbuckles in good condition and in accordance with rule requirements?		yes							
Are battens and wedges efficient and in good condition?		yes							
Are lashings provided in accordance with rule requirements?		yes							

Description of any special features:

Large hatches

Upper deck: - With 36" high steel coaming and hinged steel covers closed water tight to turn deck space.  
 With 4'3" x 40" angle coaming and hinged steel covers closed water tight to store on port side.

2nd deck. With 830 x 90 x 11 L coaming and 2 1/2" wood covers 2 turnbuckles and cleat spaced 24" apart.

Temporary opening hatch:

4'1" x 17'5" with 230 x 90 x 11 L coaming and fitted with temporary means for closing

Endorsement at first survey and at surveys for renewal of Certificate:

The fittings and appliances are in accordance with the particulars shown on this form for a new building, and are in good condition.



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34133

14 MAY 1942

Particulars of Gangway, Cargo and Coaling Ports.

None fitted

Particulars of Stow

**Forecastle:** One sanitary discharge pipe on port side led overboard about 2' below freeboard deck and fitted with storm valve. Scupper from fore space led overboard in way of sanitary discharge pipe.

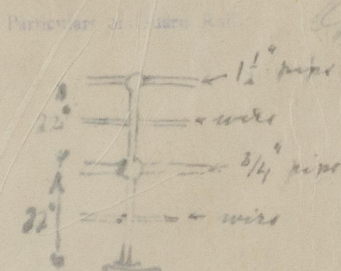
**Fore deck space:** One sanitary discharge pipe from space above shelter deck, port and starboard side led overboard above freeboard deck and fitted with storm valve. One scupper each side amidships led to the engine room bilge. One scupper each side in way of bonnet well lead with deck led overboard and fitted with non return valve 5" diam don't fitted from shelter deck.

**Poop space:** Scuppers from poop space led to the bilge well and fitted with non return valve.

Particulars of Side

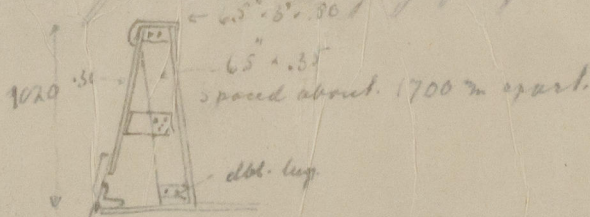
Side scuttles of substantial construction and fitted with hinged doorlights in way of tween deck spaces in poop and forecabin.

Particulars of Mast



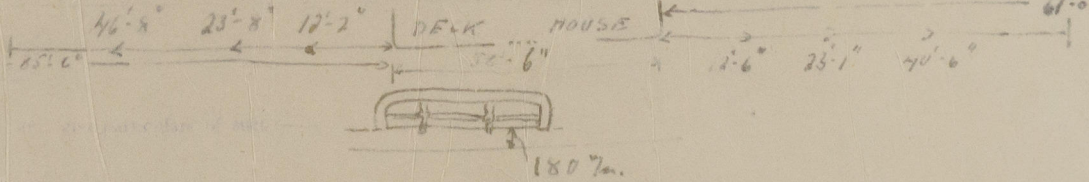
Particulars of Gangway, Ladders, etc.

Open rail fitted in way of poop bulwark elsewhere.



## Particulars of Pacing Arrangements.

Location	Height of Bulwark	Size of Bulwark	Number each side	Width each side	Length each side
After Well	69'-2"	1020 mm	3	18.0 ft	16.45 ft
Fore Well	58'-6"	1020 mm	3		
Fore Well	66'-0"	1020 mm	3		



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