

TONNAGE FORMULA.

for calculating the Ship's Tonnage under the Merchant Shipping Acts, 1894 to 1907.

786

Surveys 50.

Builder's Name and Yard Number. <b>HENRY SCARR LTD</b> <b>Nº 436</b>		Intended Service. Passenger, Cargo, Towing, Fishing (i.e. trawling, drifting) Yacht, or for Dredging. <b>OIL CARGO</b>		Name and Address of Owner. <b>MINISTRY OF WAR TRANSPORT</b> <b>LONDON</b>		Tonnage Pocket No.: <b>T 54973</b>																	
NAME OF SHIP. <b>CHANT 2</b>		Official Number and Port of Registry or Nationality. <b>HULL</b>		British, Suez or Panama. <b>BRITISH</b>		New or Re-measured. <b>NEW</b>		Sail, Paddle or Screw. Steam or Motor. <b>MOTOR</b>		Wood, Composite, Iron or Steel. <b>STEEL</b>		Type of Bottom Framing. <b>O.D.B.</b>		Round of Beam. <b>-</b>		Where Built <b>HESSLE</b>		Year of Build <b>1944</b>		Where Measured <b>HESSLE</b>		Date of Measurement <b>JANUARY 1944</b>	

Area 1.				Area 2.		Area 3.		Area 4.		Area 5.		Area 6.		Area 7.		Area 8.		Area 9.		Area 10.		Area 11.		Area 12.		Area 13.	
Depths				8.5		8.5		8.5		8.5		8.5		8.5		14.4											
Com. Int. bet. bths.				2.125 708		2.125 708		2.125 708		2.125 708		2.125 708		2.05 683		1.1 366											
No. of bths.	Multipliers	Bths.	Products.	Bths.	Products.	Bths.	Products.	Bths.	Products.	Bths.	Products.	Bths.	Products.	Bths.	Products.	Bths.	Products.	Bths.	Products.	Bths.	Products.	Bths.	Products.	Bths.	Products.	Bths.	Products.
1	1			20.9	20.9	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.4	23.4										
2	4			20.15	80.60	25.5	102.0	25.5	102.0	25.5	102.0	25.5	102.0	25.5	102.0	25.5	93.40										
3	2			17.4	34.8	24.8	49.6	24.8	49.6	24.8	49.6	24.8	49.6	24.8	49.6	24.8	46.0										
4	4			15.6	62.4	24.0	96.0	24.0	96.0	24.0	96.0	24.0	96.0	24.0	96.0	24.0	83.2										
5	1/2			14.9	7.45	23.0	11.5	23.0	11.5	23.0	11.5	23.0	11.5	23.0	11.5	23.0	18.6										
6	4																										
7	1																										
a.	.25																										
b.	1.00																										
c.	.50																										
d.	1.00																										
e.	.25																										
Com. int. bet. bths.				229.60 71		296.6 71		296.6 71		296.6 71		296.6 71		293.9 68		264.6 34											
				163.016		210.586		210.586		210.586		210.586		199.85		94.902											

Cubic Contents and Under-deck Tonnage.				Between Decks to				Between Decks to			
Length on Tonnage Deck.				Mean length				Mean length			
Com. int. bet. areas				Com. int. bet. bths.				Com. int. bet. bths.			
No. of Multi-pliers	Areas.	Products.		No. of Multi-pliers	Bths.	Products.		No. of Multi-pliers	Bths.	Products.	
1	1			1	1			1	1		
2	4	163.02	652.08	2	4			2	4		
3	2	210.59	421.18	3	2			3	2		
4	4	210.59	842.36	4	4			4	4		
5	2	210.59	421.18	5	2			5	2		
6	4	210.59	842.36	6	4			6	4		
7	2	199.85	399.70	7	2			7	2		
8	4	94.90	379.60	8	4			8	4		
9	1/2			9	2			9	2		
10	4			10	4			10	4		
11	2			11	2			11	2		
12	4			12	4			12	4		
13	1			13	1			13	1		
Com. int. bet. areas		3940.46		Com. int. bet. bths.				Com. int. bet. bths.			
		6.06									
		240.60.99									
		240.61									

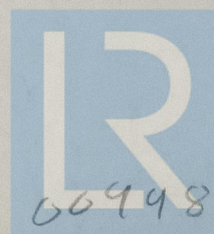
Erections:—  
FORECASTLE  
 $\frac{14.2}{2.34} \times \frac{11.2}{18.4} \times 8.0 = 12.04$   
 $\frac{63.5}{1.8} \times 2.0 \times 8.0 (2) = 27.2$   
 $\frac{5.8}{5.8} \times 5.0 \times 8.0 = 2.10$   
POOP  
 $\frac{42.3}{4.05} \times \frac{26.2}{14.0} \times 6.9 = 68.69$   
 $\frac{141.20}{4.4} \times 21.9 \times 6.9 = 6.65$   
 $\frac{15.45}{2.5} \times 4.0 \times 6.9 = 4.61$   
 $\frac{2.5}{2.5} \times 2.2 \times 6.9 = .38$   
 $\frac{4.4}{4.4} \times 5.0 \times 6.9 = 1.52$   
 $\frac{8.0}{8.0} \times 4.0 \times 6.9 = 3.86$   
 $\frac{4.4}{4.4} \times 5.3 \times 6.9 = 1.61$

TONS		Under Deck.	
241.11		Between decks.	
		Between decks.	
61.34		Turret or Trunk.	
10.52		Forecastle.	
		Bridge.	
		Break.	
61.12		Poop.	
10.30		Side Houses.	
2.46		Deck Houses.	
		Chart House.	
12.21		Light and Air Spaces.	
4.08		Excess of Hatchways.	
403.44		Gross Tonnage.	
84.64		Allowance for Propelling Power.	
318.74		Allowance for Crew Space.	
62.94		Deduction under Section 79.	
255.80			
41.58			
214.22		Register Tonnage.	

ADD. CRANK RECKS  
 $15.4 \times 5.0 \times 1.0 = 4.4$   
 $+ 1.4 \times 3.0 \times .5 = .03$   
241.11

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In the case of steam or motor vessels the engine-room measurements and the calculations for the allowance for propelling power are to be given in detail below.

Identification Dimensions.

Length. Breadth. Depth.

Position of engine-room :-

Engine-room bulkhead is 7.65 feet (forward) (aft) of area 6  
 Boiler do. do. 7.85 .. (forward) (aft) .. 8

14.2.2'

24.0'

8.5'

Machinery Spaces.

Machinery Space I  
 8.7 x 16.8 x 8.2  
 16.4

8.7 x 24.55 x 8.2  
 24.4  
 24.2

3.5 x 24.4 x 4.2  
 24.2  
 24.0

Shaft Space  
 8.6 x 5.5 x 4.3

Trunk recess  
 15.7 x 3.0 x 1.0  
 + 1.7 x 3.0 x .5

less motor pump  
 6.0 x 3.0 x 4.0 = .72

" store  
 1.75 x 2.6 x 4.7 = .21

" workbench  
 3.5 x 2.7 x 4.7 = .44

" lub. oil tank  
 2.3 x 4.0 x 3.8 = .35

" switchboard  
 2.2 x 1.2 x 3.0 = .08

add L & A  
 36.14  
 12.21

48.38  
 404.13 = 11.9

84.64 tons

Light and Air Spaces.

In poop  
 15.45 x 4.0 x 4.0 = 4.72

less stairway  
 2.5 x 2.2 x 4.0 = .39

" daily I.W. tank  
 2.0 x 4.0 x 3.7 = .34

on poop  
 9.0 x 6.5 x 4.4 = 4.03

+ 3.2 x 2.3 x 4.4 = .54

+ 3.6 x 6.5 x 4 = 2.1

skylight  
 5.2 x 6.5 x 4 = 1.1

12.21 12.55

Erections (contd.)

Trunks  
 3.4 x 5.0 x 1.7 = .29

13.3 x 13.5 x 3.35 = 6.01

5.5 x 14.5 x 3.35 = 3.22

41.0 x 18.0 x 3.35 = 24.72

21.7 x 18.0 x 4.0 = 24.34

less pump room access  
 1.7 x 2.0 x 4.0 = .24

61.34

W/T House  
 4.4 x 4.5 x 4.3 = 1.45

+ 4.8 x 6.5 x 4.3 = 3.70

5.15(2) = 10.30

W/T House  
 4.5 x 3.7 x 4.0 = 1.17

1.17

W/T House  
 3.5 x 6.5 x 4.0 = 1.59

2.79

Merchant Shipping Act, 1907.

Gross Tonnage ... 403.44

Deductions under Section 79, viz. :-

1. Crew space 62.94

2. Other deductions 41.58

Remainder ... 298.89

Multiplier for percentage ... 55

Limit of allowance for propelling power ... 164.389

164.389

Exempted Spaces.

Forecastle  
 1.8 x 14.5 x 8.0 = 2.09

less trunk  
 1.8 x 5.0 x 1.7 = .15

1.94

Hatchways.

Ceil hatches  
 6.7 x 15.0 x 1.4 = 1.41(4) = 5.64

+ Cochrane hatches

4.0 diam .9 (4) = .44

.11

1/2% gross 6.08

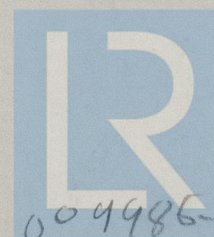
excess 2.00

4.08



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