

## LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

## SURVEYS FOR FREEBOARD

(COMPUTATION FOR ~~WHALER~~ ~~HAVING FREEBOARD INTERMEDIATE~~ ~~STEAMER, SAILING SHIP, TANKER~~ ~~BETWEEN A~~ ~~and~~ ~~STEAMER~~)

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owner's CN

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
SIR JAMES CLARK ROSS		NORWEGIAN SANDEFJORD	18 448	1930 8

Port of Survey HAMBURGDate of Survey 12<sup>th</sup> May to 20<sup>th</sup> Aug 1955

FOR G. SCHNEITZER &amp; SELF

Surveyor's Signature J. R. RoseParticulars of Classification +100 A1 with freebd.  
WHALING SERVICE, CARRYING OIL IN BULK  
FP ABOVE 150°F.

Moulded Dimensions: Length 579.5' Breadth 74.0' Depth 48.75'  
Freeboard Length 573.58'  
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding boosing) \_\_\_\_\_ tons  
Coefficient of fineness for use with Tables .846 .854 EST.

## DEPTH FOR FREEBOARD (D).

Moulded depth ... 48.75'  
Stinger plate ... .72  
Wood Sheathing on exposed deck 3" THICK  
 $T \left( \frac{L-S}{L} \right) = 25 \left( \frac{579.5-120}{579.5} \right) = 20$   
Depth for Freeboard (D) = 49.01'

## DEPTH CORRECTION.

- (a) Where D is greater than Table depth  
(D-Table depth) R = +32.31  
(49.01-48.24) 3  
(b) Where D is less than Table depth (if allowed)  
(Table depth-D) R = 12.71

If restricted by superstructures

## ROUND OF BEAM CORRECTION.

Moulded Breadth (B) 74  
Standard Round of Beam =  $\frac{B \times 12}{50} = 17.76$   
Ship's Round of Beam = 6.00  
Difference = 11.76  
Restricted to  
Correction =  $\frac{\text{Diff}}{4} \times (1 - \frac{S}{L}) = \frac{11.76}{4} \times (1 - \frac{120}{579.5}) = 2.36$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>120'</u>		<u>8'0"</u>		
overhang	<u>18'</u>				
R.Q.D. enclosed					
overhang					
Bridge enclosed					
overhang aft					
overhang forward					
Fore enclosed	<u>107.5'</u>	<u>107.50</u>	<u>8'0"</u>		<u>107.50</u>
overhang	<u>3.0'</u>	<u>6.00</u>			<u>6.00</u>
Trunk aft	<u>12.00</u>				
forward					
Tonnage opening aft					
forward					
Total	<u>119.50</u>	<u>113.50</u>			<u>113.50</u>

Standard Height of Superstructure 7.50" " R.Q.D. 42.00Deduction for complete superstructure 42.00Percentage covered  $\frac{S}{L} = 20.83$ 

" "  $\frac{S_1}{L} = 19.79$   
" "  $\frac{E}{L} =$

Percentage from Table, Line A. Tanker 13.85  
(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 = 42 x 13.85 = -5.82

## SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	67.36	1	67.36	3.75	3.75	1	3.75
L from A.P.	29.95	4	119.90	-	-	4	-
FL	7.41	2	14.82	-	-	2	-
Amidships	0	4	0	0	0	4	0
L from F.P.	14.82	2	29.64	-	-	2	-
FL	59.95	4	239.80	-	-	4	-
F.P.	134.72	1	134.72	35.75	35.75	1	35.75
Total			606.24				39.50

Correction =  $\frac{\text{Difference between sums of products}}{18} = \frac{566.74}{18} = 31.48$ 

If limited on account of midship superstructure. ✓

Mean actual sheer aft = Deficient  
Mean standard sheer aft =Mean actual sheer forward = Deficient  
Mean standard sheer forward =Length of enclosed superstructure forward of amidships = N.I.  
" " aft of " = Tanker

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

## Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 49.06  
Summer freeboard = 15.44  
Moulded draught (d) = 33.62  
Keel allowance = 0.40  
Extreme draught = 8.40  
Deduction for Tropical freeboard and addition for = 8½ = 216 mm

Winter freeboard = 4 inches = 216 mmAddition for Winter North Atlantic Freeboard (if required) = 5.74 + 8.40 = 14.14 = 14¼ = 362 mm

## Deduction for Fresh Water.

Displacement in salt water at summer load water line  
 $\Delta = 34423$   
Tons per inch immersion at summer load water line  
 $T = 92.65$   
Deduction =  $\frac{\Delta}{40 T} = \frac{34423}{40 \times 92.65} = 9.29 = 9¼$

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

Correction for coefficient .854 x .68 = .584  
1.36

Depth Correction ... 32.31  
Deduction for superstructures ... 20.34  
Sheer correction ... 2.36  
Round of Beam correction ... 0.06  
Correction for Thickness of Deck amidships ... 19.40  
Other corrections, scantlings, etc. 15  
74.47 5.82

Summer Freeboard = 185.25

## SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, S, Deck :-

Tropical Fresh Water Line above Centre of Disc 17¾ = 451 mm  
Fresh Water Line " " 9¼ = 235 mm  
Tropical Line " " 8½ = 216 mm  
Winter Line below " " 8½ = 216 mm  
Winter North Atlantic Line " " 14¼ = 362 mm

Tropical Fresh Water Freeboard 13½ = 4255 mm  
Fresh Water " 14 = 4471 mm  
Tropical " 15 = 4490 mm  
Winter " 16 = 4922 mm  
Winter North Atlantic " 16½ = 5068 mm



Sir James Clark Ross.

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.

Correction for sideway?

Trade of ship

WHALING FACTORY

Names of sister ships

Builder's name and yard number

HAVERTON HILL

Owners

HVALFANGER A/S. ROSS HAVET

Rec'd

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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