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THE BRITISH CORPORATION REGISTER OF  
SHIPPING AND AIRCRAFT

726

## SURVEY FOR FREEBOARD

STEAMER, ~~TANKER, SAILER~~ *Whaler* "Southern Isles" WITH  
WITHOUT TIMBER DECK CARGO  
 Nationality *British* Builders' Name and No. of Ship *Bremer Vulkan 726*  
 Port of Registry *Cape Town London*  
 Official Number *159371* Owners *The Southern Whaling & Sealing Co., Ltd.*  
 Gross Tonnage *344* Port and Date of Survey *Kegeesack*  
 Date of Build *3/36* Name of Surveyor *C. Ch. Johns*  
 Particulars of Classification *B.S.\* (Whaling purposes)* Names of Sister Ships *No. 724-26 & 730 & 31*

Type of Superstructures

*none*

Give full particulars of the following:—

Fiddley and Funnel Coamings (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

*Fiddley coaming 2050 mm, hinged steel covers.*

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

*none*

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

*aft steel companionway, 330 mm coaming, ordinary hinged steel door. Forward steel companionway, 450 mm coaming, ordinary wooden hinged door.*

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

*On freeboard deck 6 with screwed down mesh-rooms, coaming over requirements, coamings <sup>welded</sup> to steel skylights.*

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

*Openings all 915 mm above deck with satisfactory closing appliances.*

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves)

*2 sanitary discharges, 4' galvanized iron with storm valves, 4 scuppers each side 2 1/2", galvanized iron.*

Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

*No side scuttles below freeboard deck*

Guard Rails on freeboard and superstructure decks (state type and where fitted)

*Forward bulwark of amidships bulwark of bulwark aft open rails 980 mm in height with 3 wire ropes with guard chain 300 mm above*

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## COMPUTATION OF FREEBOARD.

7.087

Length on summer load line 133.27' Moulded Breadth 26' Moulded Depth 14'6" Depth of Keel 180"   
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 699 Tons   
 Co-efficient of fineness for use with tables  $\frac{\Delta \times 35}{L \times B \times D \times 85} = 0.573$  use .68 minimum   
 Displacement and tons per inch immersion in salt water at summer load line 660 tons displ. and 6.5 / inch   
 Moulded depth 14.5' Deduction for Fresh Water  $\frac{\Delta}{40T} = \frac{46.5}{2.5}$  inches   
 Stringer Plate .022 - Round of Beam Correction   
 Sheathing on exposed deck T  $(\frac{L-S}{L})$  .095 Ships Round of Beam 7.09 inches   
 Rise of floor (in sailers) Standard Round of Beam  $\frac{B \times 12}{50} = 6.24$    
 Depth for Freeboard (D) 14.617 Difference .85   
 Table Depth 8.883 Restricted to   
 Depth Correction 5.734  $\times \frac{1}{1.30}$  Correction  $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) = .2125$    
 If restricted by superstructures 5.876

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)	Standard Height of Superstructure
Poop							" " R.O.D.
Raised Quarter Deck		F					Percentage covered S/L =
Bridge		A					" " E/L =
Forecastle							" from Table line A, B, (corrected for absence of forecastle if required)
Trunk Aft							Percentage from Table by interpolation for Bridge less than .2L if required =
" Forward							Deduction =
Tonnage Opening Aft							Percentage from Table for Tankers (or Timber ships) =
" " Forward							Deduction =
Totals							

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	51.3	23.33	51.3	1	51.3
1/4 L from A.P.	22.8	10.38	22.8	4	91.2
1/4 L from A.P.	5.7	2.57	5.7	2	11.4
Amidships	0	0	0	4	0
1/4 L from F.P.	9.1	5.13	9.1	2	18.2
1/4 L	36.3	20.76	36.3	4	145.2
F.P.	81.6	46.67	81.6	1	81.6
				18	398.9

Effective Mean Sheer = 22.16

Standard " " .05L + 5 = 11.16

Difference = 11.00

Mean Actual sheer aft = 2.25 over

Mean Actual sheer forward = 4.75 over

Length of enclosed superstructure forward of amidships = 0

Length of enclosed superstructure aft of amidships = 0

Sheer Correction = Difference  $\times (\frac{75}{2} - \frac{S}{L}) = 7.88$    
 = 8.25

If limited on account of midship superstructure = 1 1/2 x 1.3324 = 1.9982

TABULAR FREEBOARD corrected for flush deck if required = 15.39'

Correction for co-efficient =

DRAUGHTS AND SEASONAL CORRECTIONS

	+	-
Depth correction	5.84	
Deduction for superstructures	/	
Sheer correction		2.0
Round of Beam correction		.21
Correction for thickness of deck amidships	16.58	1.04
Other corrections, scantlings, etc.	16.58	
	22.46	3.35

Summer Freeboard in inches = 34.50

Additional allowance for superstructures on

Timber carrying ships =

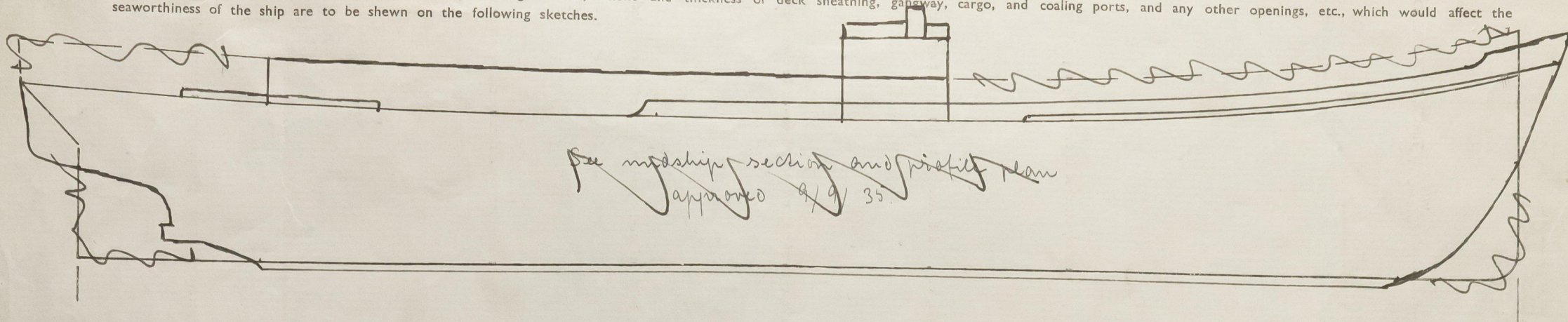
Summer Timber Freeboard in inches =

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet	14'-6 1/4"	
Summer Freeboard in feet	2'-10 1/2"	
Moulded Draught (d)	11'-7 3/4"	(d1.)
Addition for Keel	7	
Extreme draught	12'-2 3/4"	
Deduction for Tropical and addition for Winter freeboard d/4 =		ins.
Addition for Winter North Atlantic (if required)		ins.
Deduction for Tropical Timber Freeboard $\frac{d}{4}$		ins.
Addition for Winter " $\frac{d}{3}$		ins.
" " N.A. Timber Freeboard (if required)		ins.

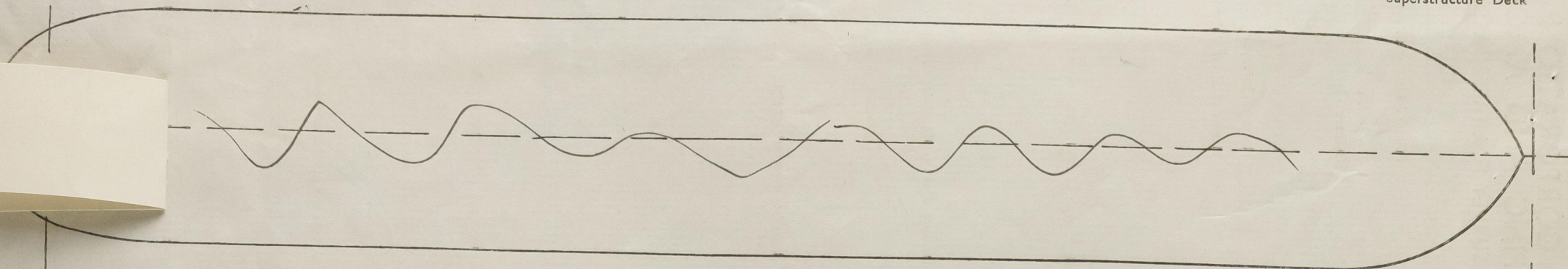
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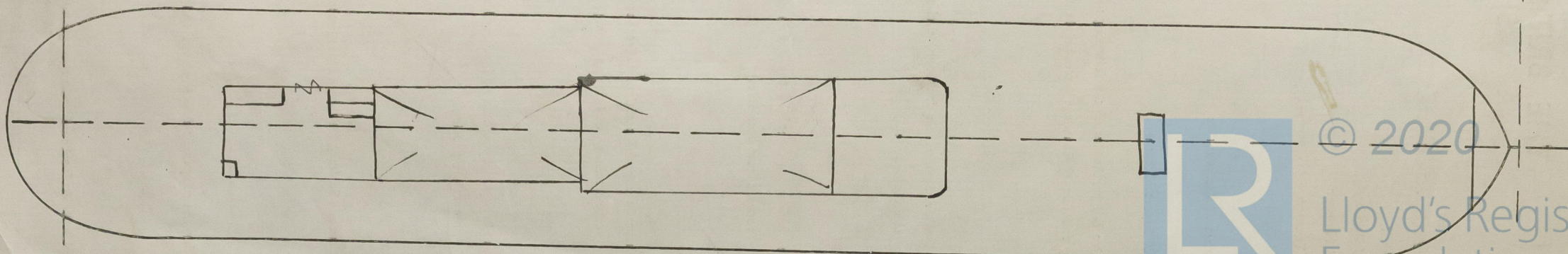
Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatches, extent and thickness of deck sheathing, gateway, cargo, and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches.



Superstructure Deck



Freeboard Deck



Statement of special features in the construction of the ship



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As this vessel is less than 250'-0" in length  
the Freeboard Report has not been compared with the  
approved plans.

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Assgd 20/3/36.

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# All seasons

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (wood steel)

2'-10 1/2"

TROPICAL FRESH WATER LINE	above centre of disc	—	Corresponding Freeboard	—
FRESH WATER LINE	" " "	2 1/2'	" "	2'-8"
TROPICAL LINE	" " "	—	" "	—
WINTER LINE	below " "	—	" "	—
WINTER NORTH ATLANTIC LINE	" " "	—	" "	—

SUMMER TIMBER FREEBOARD recommended amidships from centre of disc to top of deck line

TROPICAL FRESH WATER Timber line	above centre of disc		Corresponding Freeboard	
FRESH WATER	" " " " "		" "	
TROPICAL	" " " " "		" "	
WINTER	" " below " "		" "	
WINTER NORTH ATLANTIC	" " " " "		" "	

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
R.Q.D. "								
Bridge Aft Bulkhead								
" Forward "								
Forecastle Bulkhead								
Trunk, Aft								
" Forward								
Exposed Machinery Casings on Freeboard or R.Q. Decks	8 Z	8 Z	90 x 10 75 x 8	1000 610	240 x 240 x 7 1/2	750 x 450	650	2050
Exposed Machinery Casings on superstructure decks								
Machinery Casings within Superstructures not fitted with Cl. 1. closing appliances								
Deckhouses on flush deck ships	8	8	90 x 10	700	Brackets	2/14.00 x 6.10 17.00 x 6.30	610	2100

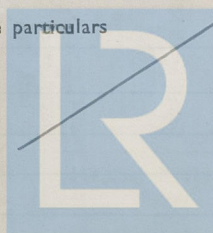
## PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead	
R.Q.D. "	
Bridge Aft Bulkhead	
" Forward "	
Forecastle Bulkhead	
Exposed Machinery Casings on Freeboard or R.Q. decks	yes steel
Exposed Machinery Casings on superstructure decks	/
Machinery Casings within superstructures not fitted with Cl. 1. Closing Appliances	/
Deck houses on Flush Deck ships	yes 1 steel 1 wooden door

## PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well					
Forward Well					
State fore and aft position and height above deck to bottom of port, for each port			After Well Forward Well		
State whether freeing ports are fitted with shutters, bars or rails, and give particulars					

Give particulars of freeing port area, etc., on superstructure decks



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Are wood forms and steel shod at all bearing surfaces? none

Are battens and wedges efficient and in good condition? none

Are tarpaulins in good condition and in accordance with rule requirements none

Are lashings provided in accordance with rule requirements? none

fore and afters are to b

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steel shod at all bearing surfaces.]



Gangways and Lifelines

*Gangway from bridge to shooters platform*

Gangway, Cargo and Coaling Ports in sides of ship *none*

#### SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructures and Machinery Casings comply with rules?

Is provision made for protection of steering gear, and is emergency steering gear provided?

Are efficient uprights, sockets and lashings provided according to rules?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Approval date of plans and full particulars of arrangements for stowing and securing timber

The scantlings and protective arrangements being in accordance with the Freeboard rules it is submitted that the freeboard be assigned

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft  
on the *25<sup>th</sup> March 1936.*



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Chief Surveyor.

Secretary.

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