

STEEL STEAMER ~~OR MOTORSHIP~~

Received at London Office

MAY 16 1938

State if Report has been sent on the Freeboard of the Vessel *Yes*State if Report is sent on the Machinery of the Vessel *Yes*

Date of completion of report

13th May 1938

Port of

Oslo

No.

5097

Survey held at

Fredrikstad

Date First Survey

11th October 1937

Last Survey

3rd May

1938

On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw)

steel single screw steamer "VIVA"

State Type (Full scantling, Complete Superstructure with or without Tonnage Openings)

Complete Superstructure with Tonnage opening aft

State Type of Erections

Freecastle

TONNAGE under Tonnage Deck...

3077.01

CLASS 100 A 1

State if with freeboard as condition of Class

Yes

Built at Fredrikstad

Do. of space or spaces between Tonnage Dk. and Upper Dk.

Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a)

L 109.12 m.

Launched 24th March 1938

Yard No. 287

Builders Fredrikstad Mek. Verktsted

Owners A/S Viva

Managers C. H. Sørensen &amp; Sønner

(Where necessary to be entered in Reg. Book.)

Total

Gross Tonnage 3798.13

Net Register Tonnage 2193.65

REGISTERED DIMENSIONS. FEET.

Length 365.2

Breadth 57.3

Depth 20.2

Breadth (greatest moulded)

B 17.37 m.

Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c)

D 10.67 m.

1st Longitudinal Number (L x D)

= 1048.6

2nd Numeral L x (B + D)

= 2944.1

Framing Depth "d" at middle of length. See Sec. 3 (1d)

621 m.

Proportions—Depth to Length—Uppermost continuous deck to top of keel

10.2

Do. Long Bridge to top of keel

22' 3"

Draught Moulded

Length overall 116.82 m.

Residence Arendal

Port of Registry Arendal

If surveyed while building, afloat, or in dry dock

Yes

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>FRAMES, Spacing amidships</b>	730	✓	<b>Bracket Floors, Frame</b>	7 3/4 .33	✓
" " from 3/8 length to Collision bulkhead	685	✓	" " Reversed Frame	6 3 .38	✓
" " in peaks	610	✓	" " Vertical Struts	6 3 .38	✓
<b>DE FRAMING.</b>			and [ 8 x 3 1/2 x 3 1/2 x 4 1/2	✓	
<b>Frame Amidships, Angle [ or ]</b>	10 3 1/2 .50	✓	<b>Centre Girder, depth and thickness amidships</b>	1000 12.5	✓
" " Extends up to	Upper deck	✓	" " top Angles	3 1/2 3 1/2 .44	✓
<b>Reversed Frame Amidships, Angle</b>	- - -		" " bottom Angles	4 4 .50	✓
" " Extends up to	- - -		<b>Side Girders, No. each side and thickness</b>	one 9 where flanged	✓
<b>Depth of Framing Girder</b>	10"	✓	<b>Margin Plate depth (excl. of flange) and thickness</b>	830 12.25	✓
<b>Frames in Uppermost Continuous 'tween Decks, Angle [ or ]</b>	6' 3 1/2 .50		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	3 3 .42	✓
" " <b>Second 'tween Decks, Angle [ or ]</b>	- - -		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	5 5 .42	✓
" " <b>Third " " " "</b>	- - -		" " Gussets, spacing and scantling abaft 1/2 len. from stem	Cont. plate 9.5	✓
<b>Framing in Peaks, Angle or [</b>	7" 3 1/2 .36	✓	" " Gussets, spacing and scantling forward 1/2 len. from stem		
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amidships</b>			<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b>	1575 10	✓
<b>State if Frame Joggled</b>	Yes	✓	<b>INNER BOTTOM PLATING.</b>		
<b>FRAMING ARRANGEMENTS (Sec. 7), state system and particulars</b>	Deep framing Side stringers. Add. rivets in gusset. Rivets 5/16 dia.	✓	Breadth and thickness of Middle Line Strake	2000 11.5 10	✓
<b>STRENGTHENING OF BOTTOM FORWARD. State Particulars</b>	D.R. bottom frame 3 strakes, incr. thickness. Frame riv. 5/16 dia. Add. side girders	✓	Thickness of remainder in Holds	10.25	✓
<b>ANGLE BOTTOM.</b>			Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	Yes	✓
<b>Floors, Depth and thickness at mid-line in Holds</b>	- - -		<b>BEAMS.</b>		
Height of Brackets at side above base line at toe of frame	- - -		<b>Uppermost Continuous Deck, amidships in Wells, Angle [ or ]</b>	9 3 1/2 .40	✓
<b>Middle Line Keelson, on Floors, Angles, [ or ]</b>	- - -		" " in way of Bridge, Angle [ or ]	9 3 1/2 .38	✓
" " Through Plate or Intercostal Plate	- - -		Spacing	every frame	✓
" " Foundation Plate on Floors	- - -		<b>Second Deck, amidships, Angle [ or ]</b>	10 3 1/2 .44	✓
" " Flat Plate Keel Angles	- - -		Spacing	and 9 3 1/2 .46	✓
<b>Side Keelsons, No. each side</b>	- - -		Third Deck, amidships, Angle [ or ]	- - -	
" " thickness of Intercostal Plate	- - -		Spacing	- - -	
" " Angles	- - -		<b>Fourth Deck, amidships, Angle [ or ]</b>	- - -	
<b>DOUBLE BOTTOM.</b>			Spacing	- - -	
<b>Solid Floors, thickness and spacing</b>	9.5 every 4 ft.	✓	<b>Poop Deck, Angle [ or ]</b>	- - -	
" " Are Frame and Reversed Frame joggled?	Yes	✓	Spacing	- - -	
<b>Bracket Floors, breadth and thickness at middle line</b>	750 9.5	✓	<b>Bridge Deck, Angle [ or ]</b>	- - -	
" " breadth and thickness at margin plate	1250 9.5	✓	Spacing	- - -	
			<b>Forecastle Deck, Angle [ or ]</b>	8 3 36	✓
			Spacing	every frame	✓



## PILLARS AND DECKS.

	INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.		Any Departure from Approved Plans to be Noted.
<b>PILLARS</b> , No. of Rows..... <i>widespread</i>	✓						
<i>at fr. N° 27-35-84-92</i>	320 x 130 x 10	6 x 3 x 38	✓	Stringer Plate, breadth and thickness in way of Bridge .....	-	-	
" in 'tween Decks, Size and Spacing .....	200 x 200 x 1/16	I	✓	Thickness of Plating abreast Deck openings in way of Wells .....	-	8.5	✓
" " " " 103-107	180 x 180 x 1/16	I	✓	Thickness of Plating abreast Deck openings in way of Bridge <i>B.R.</i> .....	-	9.5	✓
" " " " 120-128	320 x 130 x 10	9 x 3 x 44	✓	Thickness of Plating within line of openings...	-	8	✓
" in Holds <i>at fr. N° 16-250</i>	350 x 320 x 1/16	I	✓	If Sheathed, material and thickness .....	-	-	
" " " " 27-84	380 x 350 x 1/16	I	✓	<b>Third Deck.</b>	-	-	
" " " " 35-92-128	430 x 350 x 20/16	I	✓	Stringer Plate, breadth and thickness.....	-	-	
" " " " 120	450 x 380 x 24/16	I	✓	If Plated, state thickness.....	-	-	
<b>Centre Line Bulkhead.</b>				<b>Fourth Deck.</b>	-	-	
Stiffeners and Spacing.....	-	-		Stringer Plate, breadth and thickness.....	-	-	
Plating, thickness of .....	-	-		If Plated, state thickness.....	-	-	
<b>STRINGERS AND DECKS.</b>				<b>Poop Deck.</b>	-	-	
<b>Uppermost Continuous Deck.</b>				Stringer Plate, breadth and thickness .....	-	-	
Stringer Plate, breadth and thickness in Wells <i>1755</i>	16	✓		Plating, Sheathing, material and thickness ...	-	-	
" " " " <i>B.R.</i> in way of Bridge	25	✓		<b>Bridge Deck.</b>	-	-	
" Angle in Wells .....	5 5 .56	✓		Stringer Plate, breadth and thickness.....	-	-	
Thickness of Plating abreast Deck openings in way of Wells .....	-	10.5	✓	Plating, Sheathing, material and thickness ..	-	-	
Thickness of Plating abreast Deck openings in way of Bridge .....	-	-		<b>Forecastle Deck.</b>	-	-	
Thickness of Plating within line of openings...	-	9	✓	Stringer Plate, breadth and thickness.....	<i>Transverse</i>	8.5	✓
If Sheathed, material and thickness .....	-	-		Plating, Sheathing, material and thickness ...	<i>plating</i>	-	
<b>Second Deck.</b>							
Stringer Plate, breadth and thickness in Wells <i>1790</i>	9.5	✓					

## SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if jogged? <i>No</i>			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing or. to cr.		Diam.	Spacing or. to cr.	
	Inches. <i>mm.</i>	Inches. <i>mm.</i>	Inches. <i>mm.</i>	Inches. <i>mm.</i>								
FLAT PLATE KEEL .....	1250	17.25 ✓	15.25 ✓	15.25 ✓		Double	22	90	✓ welded	-	-	Butt wldd
„ DBLG. (if any)	-	-	-	-		-	-	-	-	-	-	-
BOTTOM PLATING, No. of Strakes ..... 3 .....	2400	13.25 ✓	14.5 ✓	11.5 ✓		Double	22	90	✓ welded	-	-	Butt wldd
BILGE PLATING, No. of Strakes ..... 1 .....		13.25 ✓	18.5 ✓	11.5 ✓		Double	22	90	✓ three	22	80	✓ lapped
SIDE PLATING, No. of Strakes ..... 4 .....	2155	13.25 ✓	18.5 ✓	11 ✓		Double	22	90	✓ three	22	80	✓ lapped
UPPER DECK, Sheer- strake in Wells.....	-	-	-	-		-	-	-	-	-	-	-
<i>Comp. Superstr.</i> UPPER DECK, Sheer- strake in Bridge ...	2155	16.0 ✓	11 ✓	11 ✓		Double	22	90	✓ four	22	90	✓ lapped
STRAKE BELOW Sheer- strake in Wells.....	-	-	-	-		-	-	-	-	-	-	-
STRAKE BELOW Sheer- strake in Bridge ...	-	-	-	-		-	-	-	-	-	-	-
POOP SIDE PLATING .....	-	-	-	-		-	-	-	-	-	-	-
BRIDGE SIDE PLATING ...	-	-	-	-		-	-	-	-	-	-	-
FOREC'TLE SIDE PLATING	-	-	10 ✓	-		Single	19	75 ✓	two	19	65 ✓	lapped

## WATERTIGHT BULKHEADS.

<b>Total No. of W.T. BULKHEADS in Vessel</b> .....	<i>684 (all 84 inch. 8K 534 702" 8K)</i>
Extending to Upper Deck (Sec. 3 c) .....	<i>Six, inch. deep tank for 1<sup>st</sup> bhd.</i>
" Deck next below .....	✓
As per Rule <i>Six</i> .....	✓

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar</b> .....	-	-	-	-
<b>STEM</b> .....	<i>Plates welded</i>	<i>445 400 x 270</i>		
<b>STERN FRAME</b> { Propeller Post .....	<i>casting</i>	<i>202</i>		
{ Rudder .....	-	-		
<b>Speed of Vessel</b> .....		11.5 knots		✓
<b>RUDDER—Type</b> .....		<i>Balanced, double plate</i>		
" A x D .....	8.08	✓	F.M.V.	
" Diam. of head .....	<i>Tring</i>	285	✓	
" Mainpiece at top pintle .....	-	150	✓	
" " heel .....	-	150	✓	
" how constructed .....	<i>Electric welded, internal stiff<sup>g</sup> ribs</i>			
" double or single plate .....	<i>Double 12</i>	✓		
" coupling, vertical or horizontal .....	<i>vertical</i>			

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
<b>MIDSHIP BULKHEAD</b> , Upper <i>fr. N° 67</i> between decks	9	4 x 3 x 36	720		
" " Second .....					
" " Third .....					
" " Holds <i>main bhd.</i>	9-6.5	9 x 4.5	732		
<b>COLLISION</b> " (in Hold) .....	13-9.5	7 x 3.5	610		
<b>AFTER PEAK</b> " " .....	8-7.5	6 x 3 x 46	610		

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) <i>Appleby, Frodingham, Steel Co. Ltd.</i>
	<i>Cargo Fleet Iron Co. Ltd., Colvilles Ltd., Consett Iron Co. Ltd., Dorman Long Co. Ltd., Lanarkshire Steel Co. Ltd., Scottish Iron &amp; Steel Co. Ltd., Steel Company of Scotland, - British Ironplate, Oskansen, Auto Pkoy S.A., Société Anonyme d'Angoulême, Althuis, Usines d'Acieries, Allard.</i>
	Has the Steel been tested as required by the Rules?







GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

hold.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book With freeboard ✓ Strengthened for navigation in ice ✓ Rudder electrically welded. Butts of bottom plating electrically welded. ✓ Intermediate bulkhead in after hold dispensed with. ✓

Particulars of Drop Test of Cast Steel Anchors, viz.:—  
Weight, Surveyor's Initials, Number of Certificate, Date of Test.

1st Bower	29.0.26	W.H.	6620	16/4/37
2nd „	29.1.4.	W.H.	6621	16/4/37
3rd „	28.0.26	R.L.	3901	18/10/34

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop — ft., R.Q.D. — ft., Bridge — ft., Forecastle 23'-6 3/4" ft.  
(in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated —

No. and Material of Decks 1 deck and Shelter dk. steel

Official No. ; Signal Letters L.J.W.J. Is bottom of vessel coated with cement No if not give particulars of composition None

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	91'-0 1/8"	273.0	Fore peak tank,	18'-11"	212 ✓
Double bottom, under Engines and Boilers,	16'-9 1/4"	73.5	After peak tank,	20'-0"	233 ✓
Double bottom, if under Engines only,	192'-10 3/4"	723.5	Deep tank, aft, amidships	28'-9"	1094 ✓
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
	Total capacity of double bottom	1070.0 ✓			

\* The wells are not to be included in the lengths of the tanks (See Circular No. 1284).

Order for Special Survey No.

Date

28/12/1936

Dates of Surveys held while building

1937: 11/10 - 29/10 - 17/11 - 26/11 - 6/12 - 16/12  
1938: 4/1 - 13/1 - 26/1 - 2/2 - 5/2 - 11/2 - 22/2 - 25/2 - 2/3 - 4/3 - 11/3 - 16/3 - 21/3 -  
24/3 - 29/3 - 6/4 - 20/4 - 25/4 - 29/4 - 2/5 - 3/5

Total No. of Visits

28