

## STEEL STEAMER or MOTORSHIP.

-6 MAR 1929

Received at London Office.

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 28<sup>th</sup> February 1929 Port of Gothenburg  
 Survey held at Gothenburg Date First Survey 23<sup>rd</sup> May 1928 Last Survey 21<sup>st</sup> February 1929  
 On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) Twin Screw Motor Ship HERBJÖRN Machinery aft  
 State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) Full Scantling Carrying Petroleum in bulk State Type of Erections Tele & Prop.

TONNAGE under Tonnage Deck... 7242.27CLASS +100.A.1.State if with freeboard as condition of Class No.Built at GothenburgLaunched 8<sup>th</sup> Dec. 1928 Yard No. 415Builders A.B. GotaverkenOwners Skibsaktieselskapet HerbjörnManagers S. Herlofson & Co. A/S.

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

Residence Moss, NorwayPort of Registry Moss

If surveyed while building, afloat, or in dry dock

Building, afloat, on floating dock

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

Total

Gross Tonnage 8037.70Register Tonnage 4766.82

## REGISTERED DIMENSIONS.

FEET.

Length 441.1Breadth 59.2Depth 35.4Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) L 440.0Breadth (greatest moulded) B 59.0Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) D 35.01st Longitudinal Number (L x D) = 154002nd Numeral L x (B + D) = 41360Framing Depth "d," at middle of length. See Sec. 3 (1d) 12.57Proportions—Depth to Length—Uppermost continuous deck to top of keel 12.57  
Do. Long Bridge to top of keel ✓Draught Moulded (as assigned by H.M.S. 25'-9"

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	m.m. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	m.m. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>FRAMES, Spacing amidships</b> .....	<u>825</u>		<b>Bracket Floors, Frame</b> .....	
" " from $\frac{1}{2}$ length to Collision bulkhead.....	<u>675</u>		" " Reversed Frame.....	
" " in peaks.....	<u>610</u>		" " Vertical Struts.....	
<b>SIDE FRAMING.</b>			<b>Centre Girder, depth and thickness amidships</b> .....	<u>2000, 11</u>
Side Frame Amidships, Angle, <u>E</u> or <u>C</u> .....	<u>240 90 11.5</u>		" " top Angles.....	<u>90 90 12.5</u>
" " Extends up to.....	<u>Upper Dk.</u>		" " bottom Angles.....	<u>90 100 14</u>
<b>Bottom</b>			<b>Side Girders, No. each side and thickness</b> .....	<u>2 @ 15</u>
Reversed Frame Amidships, Angle.....	<u>280 90 12.5</u>		<b>Margin Plate</b> depth (excl. of flange) and thickness.....	<u>13.5 T.T. Plank</u>
" " Extends up to.....	<u>Long Bulkhead</u>		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem.....	
<b>Depth of Framing Girder</b> .....	<u>240 x 280</u>		" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem.....	
<b>Frames in Uppermost Continuous 'tween</b> <b>Decks, Angle, <u>E</u> or <u>C</u>.....</b>	<u>✓</u>		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	
" " <b>Second 'tween Decks, Angle, <u>E</u> or <u>C</u></b> <b>" " Third " " " " " " " "</b>	<u>✓</u>		" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem.....	
<b>Framing in Peaks, Angle or <u>C</u>.....</b>	<u>220 85 10.5</u>	<u>✓</u>	<b>Tank Side Brackets, height above base line at toe of Frame and thickness</b> .....	<u>See Plan</u>
<b>Diameter and Spacing of Rivets through Frame and Shell Plating amid-</b> <b>ships.....</b>	<u>22 @ 135</u>	<u>✓</u>	<b>INNER BOTTOM PLATING, in Motor Room</b>	
<b>State if Frame Joggled</b> .....	<u>Yes</u>	<u>✓</u>	Breadth and thickness of Middle Line Strake ...	<u>2980 x 13.5</u>
<b>PANTING ARRANGEMENTS</b> (Sec. 7), state system and particulars)	<u>Dep. framing &amp; stringers as per Appd plan.</u>	<u>✓</u>	Thickness of remainder in Holds.....	<u>13.5</u>
<b>STRENGTHENING OF BOTTOM FOR-</b> <b>WARD.</b> State Particulars.....	<u>90 x 90 x 11.5 back bar in No. 1 hold and in No. 2 hold. Also extra girders. See plan</u>	<u>✓</u>	Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bankers and Boiler Room?.....	<u>Yes</u>
<b>SINGLE BOTTOM.</b>			<b>BEAMS.</b>	
<b>Floors, Depth and thickness at mid-line in Holds.....</b>	<u>✓</u>		<b>Uppermost Continuous Deck, amidships</b> in Wells, Angle, <u>E</u> or <u>C</u> .....	<u>220 85 11.5 and 11.0</u>
Height of Brackets at side above base line at toe of frame.....	<u>✓</u>		" " in way of Bridge, Angle, <u>E</u> or <u>C</u> .....	<u>✓</u>
<b>Middle Line Keelson, on Floors, Angles, <u>E</u> or <u>C</u>.....</b>	<u>1680 x 12.5</u>		Spacing.....	<u>825</u>
" " Through Plate or Intercoastal Plate.....	<u>200 85 11 and 13.5</u>	<u>Amble</u>	<b>Tie Beams in Wing Tanks.</b>	
" " Foundation Plate on Floors.....	<u>230 90 13.5</u>		<b>Second Deck, amidships, Angle, <u>E</u> or <u>C</u></b> .....	<u>200 90 10</u>
" " Flat Plate Keel Angles	<u>150 150 13</u>		Spacing.....	<u>825</u>
<b>Side Keelsons, No. each side</b> .....	<u>one</u>		<b>Third Deck, amidships, Angle, <u>E</u> or <u>C</u></b> .....	
Depth and thickness of Intercoastal Plate... Top Bulb Angle.....	<u>1680 x 12.5</u> <u>230 95 13.5</u> <u>300 95 16.5</u> <u>150 150 13</u>		Spacing.....	
<b>DOUBLE BOTTOM, in Motor Room.</b>			<b>Fourth Deck, amidships, Angle, <u>E</u> or <u>C</u></b> .....	
<b>Solid Floors, thickness and spacing</b> .....	<u>11 @ 825</u>		Spacing.....	
" " Are Frame and Reversed Frame joggled?.....	<u>Frames only.</u>		<b>Poop Deck, Angle, <u>E</u> or <u>C</u> through beams</b> .....	<u>230 90 12.5</u>
<b>Bracket Floors, breadth and thickness at middle line.....</b>	<u>✓</u>		Spacing.....	<u>825</u>
" " breadth and thickness at margin plate.....	<u>✓</u>		<b>Bridge Deck, Angle, <u>E</u> or <u>C</u></b> .....	<u>150 70 10</u>
			Spacing.....	<u>1030</u>
			<b>Forecastle Deck, Angle, <u>E</u> or <u>C</u></b> .....	<u>190 75 10</u>
			Spacing.....	<u>675 x 610</u>



## PILLARS AND DECKS.

	M.M. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		M.M. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
<b>PILLARS</b> , No. of Rows.....			Stringer Plate, breadth and thickness in way of Bridge .....		
.. in 'tween Decks, Size and Spacing.....			Thickness of Plating abreast Deck openings in way of Wells .....		
" " " " " "			Thickness of Plating abreast Deck openings in way of Bridge .....		
" in Holds " "			Thickness of Plating within line of openings...		
" " " " " "			If Sheathed, material and thickness .....		
<b>Longitudinal Centre Line Bulkhead</b> .....			<b>Third Deck.</b>		
Stiffeners and Spacing.....	Channels 220x9x80x12 @ 825		Stringer Plate, breadth and thickness.....		
Plating, thickness of .....	13-10-11		If Plated, state thickness.....		
<b>STRINGERS AND DECKS.</b>			<b>Fourth Deck.</b>		
<b>Uppermost Continuous Deck.</b>			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells	1610x22		If Plated, state thickness .....		
" " " " " in way of Bridge	✓		<b>Poop Deck.</b>		
" Angle in Wells .....	150 150 20		Stringer Plate, breadth and thickness .....	9.0	
Thickness of Plating abreast Deck openings in way of Wells .....	20		Plating, Sheathing, material and thickness ...	6.5; 2 1/2" op	
Thickness of Plating abreast Deck openings in way of Bridge .....	✓		<b>Bridge Deck.</b>		
Thickness of Plating within line of openings...	12		Stringer Plate, breadth and thickness.....	6.5	
If Sheathed, material and thickness .....	✓		Plating, Sheathing, material and thickness ...	6.5; 1 1/2" loose pine dk.	
<b>Second Deck.</b> at ship side & longitudinal bulkheads			<b>Forecastle Deck.</b>		
Stringer Plates breadth and thickness in Wells...	1000x10		Stringer Plate, breadth and thickness .....	9.0	
			Plating, Sheathing, material and thickness ...	9.0	

## SHELL PLATING.

SCANTLINGS.					RIVETING.						
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES.			BUTTS.		
	AMIDSHIPS.		FORWARD.	AFT.		State if jogged?	SINGLE OR DOUBLE.	RIVETS. Diam. Spacing cr. to cr.	No. OF ROWS OF RIVETS.	RIVETS. Diam. Spacing cr. to cr.	STRAPPED OR LAPPED.
	Breadth. Inches. m.m.	Thickness. Inches. m.m.	Thickness. Inches. m.m.	Thickness. Inches. m.m.							
FLAT PLATE KEEL ... A.	2030	24.5	19.5	19.5	✓		double	25 90-6	3	28 119	double straps
" DBLG. (if any)											
BOTTOM PLATING, No. of of Strakes ..... B.C.D.		17.5	17.5	14.0			double	22 90-6	3	22 100	double straps
BILGE PLATING, No. of Strakes ..... E		17.5	15.0	14.0			"	" "	"	" "	"
SIDE PLATING, No. of Strakes ..... F		16.5	12.5 1/2	12.5 1/2			"	90-6	4	" 90	overlaps
UPPER DECK, Sheer- strake in Wells.....	1480	23.0	14.0 1/2	16.0 1/2			"	25 90-6	3	25 115	double straps
UPPER DECK, Sheer- strake in Bridge ...			11.5	11.5							
STRAKE BELOW Sheer- strake in Wells.....	1480	19.5	13.0 1/2	13.0 1/2			"	22 90-6	4	25 100	overlaps
STRAKE BELOW Sheer- strake in Bridge ...			11.5	11.5							
POOP SIDE PLATING .....				10.0			double	22 90	2	22 80	overlaps
BRIDGE SIDE PLATING ...		✓									
FORECASTLE SIDE PLATING			10.5				single	22 90	2	22 80	overlaps

## WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—						
Extending to Upper Deck (Sec. 3 c)		14	(12 extend to side			
" Deck next below		✓	no plans)			
As per Rule		7.				
		Plating Thickness.	STIFFENERS.			
			VERTICAL.		HORIZONTAL.	
			Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKHEAD, Upper tween decks						
"	"	Second	"			
"	"	Third	"			
"	"	Holds .....	13-9	channel 220x9x 80x12	810	3 high girders per plan
COLLISION	"	(in Hold) .....	11.5-6.5	A.A. 200x75x10.5	610	2 high girders see plan
AFTER PEAK	"	" .....	12.5-6.5	A.A. 200x75 x10	610	2 high girders per plan

## FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
<b>KEEL, Bar</b> .....			Flat plate keel	
<b>STEM</b> .....			Roller bar 255x70 Dortmund Union	
<b>STERN FRAME</b> { Propeller Post .....	Casting	see plan	Stahlwerk Krieger	
{ Rudder " .....				
<b>RUDDER—AxD</b> .....			Semi-Balanced Rudder 11'	
<b>Speed of Vessel</b> ..... Knots...				
<b>RUDDER</b> mainpiece at head ...		325	Witkowitz	
" " heel ...		245	Bergbau	
" how constructed .....	Inq.	Armschmidt & Söhne	Krieger	
" double or single plate coupling, vertical or horizontal .....	✓	single	Ger.	

<b>STEEL.</b>	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	Witkowitz Bergbau und Eisenhütten-Gesellschaft, Vereinigte Stahlwerke A.G. August Thyssen-Hütte Hamborn; Lütchhoffnungshütte Walzwerk Oberhausen; Mannesmann-Röhrenwerke Hückingen.
	Has the Steel been tested as required by the Rules? Yes.







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.)

There are copies of the following approved plans in the London Office:—

Midship Section appd. 9/6/27  
Profile & Decks " 9/6/27  
Shell Expansion " 14/5/27  
Fore Peak & Deep Tank 30/5/27  
Aft Peak & Engine Room 25/7/27  
Fuel Oil Tanks 13/6/27  
Rudder & Stemframe 10/6/27  
Propeller Brackets 10/6/27  
Box Casting 10/6/27

The copies of the above plans in this office are being retained for dealing with a sister vessel

Midship Section & Profile & Decks as built forwarded  
& also freight & casting reports

The following freeboards have been assigned by the Norske Veritas and have been marked on the vessels sides:—

Summer freeboard from statutory deck line at level of upper surface of steel  
= 9'-4"

Indian Summer = 6 1/2" above centre of disc.

Winter = 6" below " " "

Fresh Water = 6 1/2" above " " "

Corresponding extreme draught = 25'-10 1/2"

Noted  
M.H.  
8.3.29

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

1st Bower 45-3-2; J.L.; 179; 10/3/28.  
2nd " 45-1-8; J.L.; 178; 10/3/28.  
3rd " 45-1-14; J.L.; 177; 10/3/28.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 96.0 ft., R.Q.D. ft., Bridge ft., Forecastle 36.5

(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 1 dk. (stl.)

Official No. ; Signal Letters L.H.C.P. Is bottom of Vessel coated with cement Part. if not g

particulars of composition Fore Peak and D.B. Freshwater tank Cemented.

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Salt Water Capacity. Tons.	Air Capacity. Tons.
Double bottom, aft,			Fore peak tank,	25.0		113
Double bottom, under Engines and Boilers,			After peak tank,	28.0	217.0 F	24
Double bottom, if under Engines only, 135.0 F; 27 Lab Oil; 91 F.W.	65.0	278	Deep tank, aft, Wing Tanks in S.R. 416.0 F	21.7		46
Double bottom, if under Boilers only,			Deep tank, forward, 411.0 F	28.8		46
Double bottom, forward,			Other tanks, if fitted,			
Total capacity of double bottom			(If necessary, furnish further information by sketch.)			

\* The wells are not to be included in the lengths of the tanks.

Total length of D.B. = 69.0 ft.

Order for Special Survey No. 144

Date 29/8/27

Dates of Surveys held while building

1928: May 23, 24, 29; June 5, 14, 19; July 4, 9, 12, 25; Aug 9, 13, 21, 28; Sept 3, 13, 19, 24; Oct 10, 11, 19, 24; Nov 2, 7, 9, 16, 20, 26, 27, 29, 30; Dec 4, 5, 6, 7, 10, 13, 14, 18, 22.  
1929: Jan. 15, 15, 17, 17, 17, 21, 21, 22, 23, 25, 25, 28, 28, 29, 29, 31, 31; Feb. 1, 2, 4, 5, 8, 8, 8, 11, 12, 12, 14, 14.  
19.21

Lloyd's Register Foundation  
Total No. of Visits 74