

State if Report is sent on the Machinery of the Vessel. Yes.

No. 543 A.

Last Survey 17th August 1931.

State Type (Full Scantling, Complete Substructure with or without Tonnage Openings) *Full scantling. Strengthened for navigation in ice* State Type of Erections *A.G.B. & F.*

Launched 10th June, 1931 Yard No. 54.

Builders HBgs Varfs. & Sweets. A.B.

Owners *Rederi AB Svenska Lloyd.*

KPB 1/6

Manager: K. K. Bok  
(Where necessary to be entered in Reg. Book.)

Residence Gothenburg.

Port of Registry *Gothenburg.*

If surveyed while building, afloat, <sup>and</sup> ~~or~~ in dry dock

Yes.

		MM. IN SHIP.		Any Departure from Approved Plans to be Noted.	
MES, Spacing amidships .....		585			
" " from $\frac{3}{4}$ length to Collision bulkhead.....		585			
" " in peaks.....		585			
E FRAMING. in way of R.Q. dls		190	75	10	
Same Amidships, Angle, E or [		165	75	10	9.5
" " Extends up to .....		Bridge deck on alternate fr.			
Reversed Frame Amidships, Angle		✓	✓	✓	
" " Extends up to...		✓	✓	✓	
Depth of Framing Girder.....		170			
Frames in Uppermost Continuous 'tween Decks, Angle, [ or [					
" " Second 'tween Decks, Angle, [ or [					
" " Third " " " "					
Framing in Peaks, Angle or [		140	75	8.5	8
Diameter and Spacing of Rivets through Frame and Shell Plating amid- ships .....		19	135		
State if Frame Joggled .....		No			
FRAMING ARRANGEMENTS (Sec. 7), state system and particulars)		As per Section 7 B.			
STRENGTHENING OF BOTTOM FOR- WARD. State Particulars .....		As per Appr. Plans.			
STRENGTHENING OF BOTTOM.					
Floors, Depth and thickness at mid-line in Holds .....					
Height of Brackets at side above base line at toe of frame .....					
Middle Line Keelson, on Floors, Angles, [ or [					
" " Through Plate or Intercostal Plate...					
" " Foundation Plate on Floors .....					
" " Flat Plate Keel Angles					
Keelsons, No. each side .....					
" thickness of Intercostal Plate...					
" Angles .....					
STRENGTHENING OF BOTTOM.					
Mid Floors, thickness and spacing .....		8.	Every 3rd frame.		
" Are Frame and Reversed Frame joggled ?.....		No			
Bracket Floors, breadth and thickness at middle line.....		630	8		
" " breadth and thickness at margin plate.....		700	8		
Bracket Floors, Frame BA		140	75	9	8
" " Reversed Frame BA		130	75	8	
" " Vertical Struts BA		130	75	8	
Centre Girder, depth and thickness amidships		850	10.5		835.
" " top Angles .....		75	75	10	
" " bottom Angles .....		90	90	10.5	
Side Girders, No. each side and thickness .....			1	8	
Margin Plate depth (excl. of flange) and thickness .....		585 in way of 10.0k 610			9mm. 760
" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem .....		75	75	8	
" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem .....		130	130	9	
" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....		90	90	10	Every 3rd frame
" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem.....		90	90	10	Every 3rd frame
Tank Side Brackets, height above base line at toe of Frame and thickness		1400	8.5		
INNER BOTTOM PLATING.					
Breadth and thickness of Middle Line Strake ...		1090	10		9.5
Thickness of remainder in Holds .....			8		
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.			
BEAMS.					
Uppermost Continuous Deck, amidships		180	75	9	
" " in Wells, Angle, E or [					
" " in way of Bridge, Angle, E or [		180	75	9	
" " Spacing .....		585			
R.Q.					
Second Deck, amidships, Angle, E or [		127	75	8	
" " Spacing.....		585			
Trunk					
Third Deck, amidships, Angle, E or [		140	75	9	
" " Spacing.....		585			
Fourth Deck, amidships, Angle, [ or [		✓	✓	✓	
" " Spacing.....		✓	✓	✓	
Poop Deck, Angle, E or [		150	75	9	
" " Spacing.....		Altern. frame.			
Bridge Deck, Angle, E or [		125	75	8	
" " Spacing.....		140	75	8.5	
Forecastle Deck, Angle, E or [		125	75	7	
" " Spacing .....		150	75	8	
" " Spacing .....		585			



## 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, No. of Rows.....</b>	<i>As per app. plans</i>				<i>Angle</i>	<i>130</i>	<i>130</i>	<i>12</i>	
„ in 'tween Decks, Size and Spacing.....				Stringer Plate, breadth and thickness in way of Bridge .....	<i>1</i>				
„ „ „ „ „				Thickness of Plating abreast <del>Deck</del> openings in way of Wells .....	<i>8</i>				
„ in Holds „ „				Thickness of Plating <del>abreast Deck</del> openings in way of Bridge .....	<i>7.5</i>				
„ „ „ „ „				Thickness of Plating within line of openings...	<i>8</i>				
<b>Centre Line Bulkhead.</b>					If Sheathed, material and thickness .....	<i>✓</i>	<i>✓</i>	<i>✓</i>	
Stiffeners and Spacing.....	<i>✓</i>	<i>✓</i>	<i>✓</i>		<b>Third Deck.</b>				
Plating, thickness of .....	<i>✓</i>	<i>✓</i>	<i>✓</i>		Stringer Plate, breadth and thickness.....	<i>✓</i>	<i>✓</i>	<i>✓</i>	
<b>STRINGERS AND DECKS.</b>					If Plated, state thickness.....	<i>✓</i>	<i>✓</i>	<i>✓</i>	
<b>Uppermost Continuous Deck.</b>					<b>Fourth Deck.</b>				
Stringer Plate, breadth and thickness in Wells	<i>1500</i>	<i>20</i>	<i>✓</i>		Stringer Plate, breadth and thickness.....	<i>✓</i>	<i>✓</i>	<i>✓</i>	
„ „ „ „ in way of Bridge	<i>1050</i>	<i>11</i>	<i>✓</i>		If Plated, state thickness .....	<i>✓</i>	<i>✓</i>	<i>✓</i>	
„ „ „ „ „	<i>1500</i>	<i>12</i>	<i>✓</i>	<i>at Bulkhead</i>	<b>Poop Deck.</b>				
„ Angle in Wells .....	<i>150</i>	<i>150</i>	<i>15</i>	<i>✓</i>	Stringer Plate, breadth and thickness .....	<i>580</i>	<i>7.5</i>		
Thickness of Plating abreast Deck openings in way of Wells .....	<i>10</i>	<i>✓</i>	<i>✓</i>		Plating, Sheathing, material and thickness ...	<i>3" oregon pine.</i>			
Thickness of Plating abreast Deck openings in way of Bridge .....	<i>8-7.5</i>	<i>✓</i>	<i>✓</i>		<b>Bridge Deck.</b>				
Thickness of Plating within line of openings...	<i>8</i>	<i>✓</i>	<i>✓</i>		Stringer Plate, breadth and thickness.....	<i>1450</i>	<i>9</i>		
If Sheathed, material and thickness .....	<i>✓</i>	<i>✓</i>	<i>✓</i>		Plating, <del>Sheathing</del> , material and thickness ...	<i>8</i>			
<i>P. A.</i>					<b>Forecastle Deck.</b>				
<b>Second Deck.</b>					Stringer Plate, breadth and thickness.....	<i>7.5</i>			
Stringer Plate, breadth and thickness in Wells...	<i>1500</i>	<i>11</i>	<i>✓</i>		<i>sheathed in way of windlass</i>	<i>4" pine.</i>			
					Plating, <del>Sheathing</del> , material and thickness ...	<i>7.5</i>			

## 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 cr. to cr.		Diam.	Spacing cr. to cr.	
	<i>Inches.</i> MM	<i>Inches.</i> MM	<i>Inches.</i> MM	<i>Inches.</i> MM			<i>Inches.</i> MM	<i>Inches.</i> MM		<i>Inches.</i> MM	<i>Inches.</i> MM	
FLAT PLATE KEEL <i>K</i>	1060	13.5	13.5, 12.5	13.5, 12.5		<i>Double</i>	19	73	3	22	80	<i>Lapped.</i>
„ DBLG. (if any)	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>								
BOTTOM PLATING, No. of Strakes <i>3</i>	<i>1700</i> <i>1300</i>	<i>11</i> <i>11</i>	<i>15</i> <i>15</i>	<i>9.5-11</i> <i>9.5-11</i>		<i>Double</i>	19	73	3	19	65	<i>— " —</i>
BILGE PLATING, No. of Strakes <i>1</i>	<i>1530</i>	<i>11</i>	<i>15</i>	<i>9.5-11</i>		<i>" fwd</i>	22	85	3-2	22	80	<i>— " —</i>
SIDE PLATING, No. of Strakes <i>2</i>	<i>1715</i>	<i>11</i>	<i>15</i>	<i>9.5-11</i>		<i>" fwd</i>	19	73	3	19	65	<i>— " —</i>
UPPER DECK, Sheer-strake in Wells <i>1</i>	<i>1160</i>	<i>2.5</i>				<i>single</i>	22	85	3-2	22	80	<i>— " —</i>
UPPER DECK, Sheer-strake in Bridge <i>1</i>	<i>1160</i>	<i>11</i>	<i>9.5</i>	<i>9.5-11</i>		<i>single</i>	19	73	3	19	65	<i>— " —</i>
STRAKE BELOW Sheer-strake in Wells <i>1</i>	<i>1700</i>	<i>15</i>	<i>15</i>			<i>— " —</i>	19	73	3	19	65	<i>— " —</i>
STRAKE BELOW Sheer-strake in Bridge <i>1</i>	<i>1700</i>	<i>11</i>				<i>— " —</i>	19	73	3	19	65	<i>— " —</i>
POOP SIDE PLATING			<i>7.5</i>			<i>— " —</i>	19	73	3	19	65	<i>— " —</i>
BRIDGE SIDE PLATING <i>R.Q.</i>	<i>1270</i> <i>940</i> <i>1270</i>	<i>11</i> <i>11</i> <i>20.5-13.5</i>				<i>Single</i>	16	65	1	<i>16</i> <i>19</i> <i>19</i>	<i>55</i> <i>65</i> <i>65</i>	<i>— " —</i> <i>— " —</i> <i>— " —</i>
FORECASTLE SIDE PLATING			<i>8</i>			<i>Single</i>	19	73	3	19	65	<i>— " —</i>
						<i>— " —</i>	16	65	1	16	55	<i>— " —</i>

## WATERTIGHT BULKHEADS.

## FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—						Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
Extending to Upper Deck (Sec. 3 c)..... ✓									
Deck next below..... ✓									
As per Rule. <b>4 b/d's.</b>									
		Plating Thickness.	STIFFENERS.						
			VERTICAL.		HORIZONTAL.				
			Scantlings.	Spacing.	Scantlings.	Spacing.			
<b>MIDSHIP BULK'D.</b>	Frame No 51	11-8	200x75x10.5 170x75x8.5	760 825	✓	✓			
"	Upper tween decks								
"	Second "	71	10-6.5 170x75x8.5	760	✓	✓			
"	Third "	77	9.5-8.5 190x75x9.5	770	✓	✓			
"	Holds .....	7	14-10.5 150x70x9	✓	✓	✓			
<b>COLLISION</b>	(in Hold)	121	11-6.5 165x75x10 120x75x8.5 150x70x9	600 610	✓	✓			
<b>AFTER PEAK</b>		10	9-6.5 120x75x7.5	840	✓	✓			
<b>KEEL, Bar</b> ..... ✓									
<b>STEM</b> .....						Forging	185x44	Messrs Vereinigte Stahlwerke A.G. Düsseldorf.	
<b>STERN FRAME</b> { Propeller Post .....						Casting	220x116	Messrs Witkowitz Bergbau & Eisenerz Gew. Witkowski.	
						Rudder " .....	Forging	210x155	
<b>RUDDER—A x D</b> .....						—" —	100 A + D = 100 + 6.5 m <sup>2</sup> = 560. strengthened for nav. in ice.		
<b>Speed of Vessel</b> .....						10 knots.			
<b>RUDDER</b> mainpiece at head ...						Forging	190 mm	Messrs Witkowski or Bergbau & Eisenerz Gew. Witkowski.	
" " heel ...						—" —	155 "		
" how constructed .....						Double arms.	steel.		
" double or single plate coupling, vertical or horizontal .....						Single plate	25 mm.		
						Horizontal.			

STEEL. Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture) *Open Hearth Process.*  
*Messrs Pease and Partners, Ltd, Skimmingrove Iron works, Carlin How, Yorks; Societe Anonyme D'Atel.*  
*Griveque, Griveque; Vereinigte Stahlwerke AG; Dortmunder Union; August Thyssen Werke, Hamburg. Rh.*  
 Has the Steel been tested as required by the Rules? *Yes.* */Gutehoffnungshütte, Walzwerk, Oberhausen*



EQUIPMENT No. 1386												LETTER "P"		ANCHORS. 3-1.	
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
2036	1st Bower ...	31	2	12				30	2	0	0	80½	Hall's Patent	NKAF	Ref. 10.7.31. LW.
2035	2nd „ ...	29	2	13				28	12	0	0	30½	— " — " —	— " —	" 18.7.31 LW.
2037	3rd „ ...	27	0	17				26	18	0	0	26	— " — " —	— " —	" 18.7.31 LW.
	Collective weight.	88	1	14								87.0			
2038	Stream .....	5	3	24	1	3	4	8	5	0	0	7¾	Common stock.	N.K.A.F.	Ref. 23.7.31. LW.

Please see enclosed letter. CHAIN CABLES.

CHAIN CABLES.										HAWERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.			Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.		
	Length.	Diam.	Statu- tory.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.	Length.					Cir.	Length.		Cir.	Length.	Cir.
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.				Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
2138	240	1 7/8"	471000	661000	327-1-12			319 1/2	240	1 5/8"	Shod link	N.K.A.F.	Ref. 7.8.31. L.W.	TOWLINE	90	3 1/4	21.7	90	3 1/4
														HAWERS & WARPS	2x90	2 1/4	10.8	2-90	2 1/4
														"	2x90	1 3/4	8.7	2-90	2 1/4
														"	2x120	2 1/2			
														Manilla	4x90	7"			
														Cointope	2x114	14"			
Iron Stream Cable Steel Wire	75	3 3/4		29.3					75	3 3/4	6x12 wire								

H.B.Gs. Varus: Soefsenings AB.  
 Steering Gear, Steam Typ AS 2 No 26 160x180 mm. Steering Gear, Hand Wheel & Screw.  
 Boats 2 life boats. Steering Chains, Size and Test 1 1/8" 13-10-0-0-37394. 7-3-16. Windlass Typ A-7, No 29. 215x270  
 Ceiling in Holds, thickness and material 2 1/2" Swedish pine. Cargo Battens, thickness, material and spacing 6x2" Swed. pine. Spaced 9"  
 Cargo Hatchways.-(Upper Deck) Steel coamings Thickness of Hatches 2 3/4"  
 Size of No. 1 Hatchway (Forward) 23 1/2"x16'-6" No. 2 28'-9 1/2"x16'-6" No. 3 24'11 1/2"x16'-6" No. 4 23'-2"x16'-6" No. 5 in upper Dk. No. 6 32'-8"x16'-6"  
 Number of Shifting Beams and Fore and Afters No 1=3; No 2=5; No 3=4=4.

Helsingborgs Varfs- & Sveranings Aktiebolag

Builder's Signature

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel No (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo No. The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built under Special Survey in accordance with the approved plans and instructions, the Secretary's letters of various dates and in conformity with the Rules for the class contemplated. The workmanship is good. The materials are good. Forgings and castings as per Certificate attached.

All the double bottom and peak tanks have been tested as per Rule.

The decks, gutterways, hatchways, WT b'ds, shaft tunnel, WT door etc have been tested with water from a hose & found tight. The steering engine with gears and the windlass tested under steam. The tarpaulins specially examined, tested with water and found satisfactory. The freeboard marks have been cut in on the vessels sides and the freeboard verified. The vessel is strengthened for navigation in ice in accordance with Section 41 of the Rules and approved plans. Plans of the vessel as built are forwarded under separate cover.

The amount of Entry Fee ..... £ Th. 91:00 Fees applied for, 18.8 1931  
 Special Survey Fee.... £ Th. 2752:33 Received by me, 8.9.31  
 Freeboard 126.00  
 Travelling Expenses, if any £ Th. 25:00  
 Cablegrams No. 15:00

I am of opinion the Vessel should be Classed 100 A1, Hbg 8.31  
 Strengthened for navigation in ice.  
 LLOYD'S A&CP.

State whether the Vessel has been built under Special Survey yes.

Signature

J. Arneson.

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Surv. office Hbg. Date of issue 29/9/31

Committee's Minute

FRI. 11 SEP 1931

FRI. 6 NOV 1931

Character assigned

+ 100 A1 subject

Strengthened for navigation in ice  
 Lloyd's A&CP

+ d.m.c. 8.31

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Lloyd's Register  
 Foundation

561-0187 2/2



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.)

Please see following Reports on sister vessels:

Hbg Report No 225 of the 28th January, 1928, ss "Neva".

" " " 308 " " 4th April, 1929, s.s. "Tiger"

" " " 426 " " 22nd August, 1930, s.s. "Johan Jeansson".

The following plans are forwarded in separate cover:

Midship Section.

Shellplating.

Profile and deckplan.

Watertight Bulkheads.

Engine & thrust seating.

Engine & Boiler arrangement.

Hatchways.

No 3, 4 hatchways.

Hold pillars, supporting of same.

Pillars.

Detail of trunk on R. & Dk.

Stern frame

Rudder.

General Plan and Tonnage openings forwarded together with the Freeboard Report.

Correspondence:

Sec. letter "E" of the 6th November, 1929.

" " "E" " " 30 " " "

" " "M" " " 25" " "

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

1st Bower	6404.	976 Kos.	AB.	19.5.31.
2nd "	6406.	778 Kos.	AB	19.5.31.
3rd "	6368.	801 Kos.	AB	6.1.31.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 19.2 ft., R.Q.D. 70.1 ft., Bridge 108.6 ft., Forecastle 23.6 ft. (in feet and tenths). When the Poop is joined to the B.D. this should be distinctly stated Yes, see general plan.

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

Official No. Will be sent.; Signal Letters Will be sent latter.  
Is bottom of Vessel coated with cement yes, if not give particulars of composition ✓

#### PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft, <u>No 5, 6</u>	<u>74.7'</u>	<u>156</u>	Fore peak tank,	<u>14.4'</u>	<u>28</u>
Double bottom, under Engines and Boilers, <u>No 4</u>	<u>21.5'</u>	<u>50</u>	After peak tank, <u>(Overhang over tunnel well.)</u>	<u>17.3'</u>	<u>54</u>
Double bottom, <u>if</u> under Engines only, <u>No 3</u>	<u>15.3'</u>	<u>36</u>	Deep tank, aft,	<u>✓</u>	<u>✓</u>
Double bottom, <u>if</u> under Boilers only, <u>No 1, 2</u>	<u>101.14</u>	<u>195</u>	Deep tank, forward,	<u>✓</u>	<u>✓</u>
Double bottom, forward,			Other tanks, if fitted,	<u>✓</u>	<u>✓</u>
Total capacity of double bottom		<u>437 1/2.</u>	(If necessary, furnish further information by sketch.)		

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

Order for Special Survey No. 8

Date 15.10.1929.

Dates of Surveys held while building

1930. Sept. 25; Nov. 29; Dec. 1. 8. 16. 19. 23. 1931 Jan. 2. 15; Feb. 6. 11. 19. 24. 26. 28. Mar. 2. 3. 5. 10. 13. 16. 20. 23. 30. 31. April: 13. 16. 17. 20. 27. 29. 29. May: 4. 11. 12. 18. 23. 28. 29. 30. June: 1. 1. 2. 3. 4. 5. 8. 8. 9. 10. 15. 17. 19. 19. 20. 22. 23. 25. July: 4. 8. 9. 15. 18. 21. 24. 27. 28. 30. Aug: 4. 5. 6. 8. 10. 11. 11. 12. 13. 14. 15. 16. 17.

Total No. of Visits 81.