

STEEL STEAMER ~~OF MOTORSHIP~~

30 JAN 1931

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 *27th January 1931*.Port of *HELSINGBORG*.No. *460 A*.Survey held at *HELSINGBORG*.Date First Survey *6th April 1930*Last Survey *20th January*

1931.

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

Single Screw Steel Steamer "KALMARSSUND IX"

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

*Full scantling. Strengthened for navigation in ice. Cruiser Stern.*State Type of Erections *P. G. B. F.*

TONNAGE under Tonnage Deck...

*805.84*CLASS *100 A 1*.State if with freeboard as condition of Class *No*Built at *HELSINGBORG*.

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

*160.20*Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) *L 222'-0"*Launched *22nd Nov. 1930* Yard No. *53*.

Total

*966.04*Breadth (greatest moulded) *B 34.75'*Builders *HELSINGBORG'S VARVS- & SVETSNINGS AB*.

Gross Tonnage

*1154.16*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 14.83'*Owners *ANGBÄTS AB KALMARSSUND*

Register Tonnage

*805.612.50*1st Longitudinal Number (L x D) *= 3292*Managers *J. B. Jeansson*.

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

REGISTERED DIMENSIONS.

FEET.

Length

*231.57*Framing Depth "d." at middle of length. See Sec. 3 (1d) *11.52'*

Breadth

*35.03*Proportions—Depth to Length—Uppermost continuous deck to top of keel *14.96'*

Depth

*12.79*Do. Long Bridge to top of keel *13'-10"*

Draught Moulded

Residence *KALMAR*.Port of Registry *KALMAR*If surveyed while building, afloat, ~~and~~ 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.
FRAMES, Spacing amidships	22½				Bracket Floors, Frame	✓			
" " from ⅓ length to Collision bulkhead	22½				" " Reversed Frame	✓			
" " in peaks	22½				" " Vertical Struts	✓			
SIDE FRAMING. <i>T.R. & B. 5</i>	6	3	.38	.34	Centre Girder, depth and thickness amidships	34" x 40" BR. 50			
Frame Amidships, <i>Boiler & Bunkers</i>	6	3	.43	Angles appr. .43	" " top Angles	3	3	.38	
" " <i>Engine Room</i>	6	3	.43	" " .36	" " bottom Angles	3½	3½	.40	
" " Extends up to <i>7 ft. and 4 ft. up to Bridge</i>				<i>up to upper deck</i>	Side Girders, No. each side and thickness	2 in ER. 1 in 100	30	34	.40
Reversed Frame Amidships, Angle	3	3	.46		Margin Plate depth (excl. of flange) and thickness	30" x 36" BR. 46			
" " Extends up to <i>upper deck</i>					" " Vertical Angle to Tank side Bracket abaft ¼ len. from stem	3	3	.30	
Depth of Framing Girder	6"				" " Vertical Angle to Tank side Bracket forward ¼ len. from stem	5	5	.50	DR.
Frames in Uppermost Continuous <i>fore hold</i>	6	3½	.36	Angle appr.	" " Gussets, spacing and scantling abaft ¼ len. from stem	✓			
Decks, Angle, <i>Fore hold 7 ft. 100-108</i>	7	3½	.42		" " Gussets, spacing and scantling forward ¼ len. from stem	✓			
" " <i>Second between Decks, Angle, <i>Fore peak</i></i>	5	3½	.41		Tank Side Brackets, height above base line at toe of Frame and thickness	53" x 32" BR. 42			
" " <i>Intermediate frames in FP</i>	3	3½	.41		INNER BOTTOM PLATING.				
" " <i>Third " " " Fore hold</i>	5	3½	.41		Breadth and thickness of Middle Line Strake	42" x 36" BR. 46			
Framing in Peaks, Angle <i>after</i>	5	3	.42	.41	Thickness of remainder in Holds	32" x 30			
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	3/4 - 5/4				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			
State if Frame Joggled	No				BEAMS.				
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	As per Sec. 7B.				Uppermost Continuous Deck, amidships	4	3	.38	.36
STRENGTHENING OF BOTTOM FORWARD. State Particulars	As per appr. Plans.				" " in Wells, Angle, <i>E or F</i>				
SINGLE BOTTOM.					" " in way of Bridge, Angle, <i>E or F</i>	5½	3	.38	.36
Floors, Depth and thickness at mid-line in Holds					Spacing	22½			
Height of Brackets at side above base line at toe of frame					Second Deck, amidships, Angle, <i>E or F</i> in ER	8 x 3 x 375	50		(Fore hold)
Middle Line Keelson, on Floors, Angles, <i>[or]</i>					Spacing	✓			
" " Through Plate or Intercoastal Plate					T.R. Third Deck, amidships, Angle, <i>E or F</i>	4	3	.38	.36
" " Foundation Plate on Floors					Spacing	22½			
" " Flat Plate Keel Angles					Trunk <i>two No. 1 hatch</i>	4½	3	.34	.30
Side Keelsons, No. each side					Fourth Deck, amidships, Angle, <i>E or F</i>				
" " thickness of Intercoastal Plate					Spacing	22½			
" " Angles					Poop Deck, Angle, <i>E or F</i>	6	3	.38	
DOUBLE BOTTOM.					Spacing	4½	3	.30	
Solid Floors, thickness and spacing	30, BR. 40				Bridge Deck, Angle, <i>E or F</i>	5	3	.40	.36
" " Are Frame and Reversed Frame joggled?	Every frame				Spacing	4½	3	.40	.36
Bracket Floors, breadth and thickness at middle line	✓				Forecastle Deck, Angle, <i>E or F</i>	4	3	.36	
" " breadth and thickness at margin plate	✓				Spacing	22½			

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.
PILLARS, No. of Rows.....	One in 4E.				Stringer Plate, breadth and thickness in way of Bridge angles.....	60	42		59"
„ in 'tween Decks, Size and Spacing.....					Thickness of Plating abreast Deck openings in way of Wells	32	32	40	
„ „ „ „ „					Thickness of Plating abreast Deck openings in way of Bridge	32			
„ in Holds „ „					Thickness of Plating within line of openings...	30			
„ „ „ „ „					If Sheathed, material and thickness	None			
Centre Line Bulkhead.					Third Deck. fwd No 1 Hatch				
Stiffeners and Spacing.....					Stringer Plate, breadth and thickness.....	30			
Plating, thickness of					If Plated, state thickness. Beams	13 1/2	13 1/2	40	32
STRINGERS AND DECKS.					Fourth Deck. (Aft tank top)				
Uppermost Continuous Deck.					Stringer Plate, breadth and thickness.....	3	3	38	30
Stringer Plate, breadth and thickness in Wells	61	42	52	59"	Angles to shell				
„ „ „ „ in way of Bridge	61	66		59"	If Plated, state thickness	30			
„ Angle in Wells	5 1/2	5 1/2	60	5x5x.58	Poop Deck.				
Thickness of Plating abreast Deck openings in way of Wells	36	44			Stringer Plate, breadth and thickness.....	43 1/2	28		
Thickness of Plating abreast Deck openings in way of Bridge	30	44			„ Angle 3x3x.38 Plating 3x28				
Thickness of Plating within line of openings...	30				Plating, Sheathing, material and thickness ...	5x3"	Oregon.		
If Sheathed, material and thickness	None				Bridge Deck.				
Second Deck.					Stringer Plate, breadth and thickness.....	75	36		
Stringer Plate, breadth and thickness in Wells...	60	40	42	59"	„ Angle 3 1/2 x 3 1/2 x .36				
					Plating, Sheathing, material and thickness ...	32			
					Forecastle Deck.				
					Stringer Plate, breadth and thickness.....	56	30		
					„ Angle	3	3	30	
					Plating, Sheathing, material and thickness ...	30			
					Sheathed in way of windlass	4"	pipe.		

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.		No. of Rows OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.				Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	41	50	50	46		Double	7/8 fwd 3/4 rem	3 3/4	3	7/8 fwd 3/4	3	Lapped	
„ DBLG. (if any)	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	
BOTTOM PLATING, No. of Strakes ...3.....	57 1/2	40	56	40	A B C	Double	7/8 fwd 3/4 rem	3 3/4	3	7/8 fwd 3/4	3	Lapped	
BILGE PLATING, No. of Strakes ...1.....	60	40	56	40	D	„	„	„	„	„	„	„	
SIDE PLATING, No. of Strakes ...1.....	50	40	56	36-40	E	„	„	„	2	3/4	2 5/8	„	
UPPER DECK, Sheer- strake in Wells....	55	40	36	40	G	„	„	„	3, at ends 2	3/4	2 5/8	„	
UPPER DECK, Sheer- strake in Bridge ...	38	43	43	28	I	Single	7/8	3 1/4	3, fwd 1 aft 2	5/8 fwd 3/4	2 7/8	„	
STRAKE BELOW Sheer- strake in Wells.....	61	40	56	36-40	F	Double	7/8 fwd 3/4 rem	3 1/4	3, at ends 2	„	„	„	
STRAKE BELOW Sheer- strake in Bridge ...)	48	43	30	36	H	Single Break of Bridge	5/8	2 3/4	3, aft 1.	3/4 5/8 aft	2 5/8 3 3/8	„	
POOP SIDE PLATING				28		Single	5/8	2 3/4	1	5/8	2 3/8	„	
BRIDGE SIDE PLATING ..	39 1/2	26-24				„	„	„	1	„	„	„	
FORECASTLE SIDE PLATING			30			„	„	„	1	„	„	„	

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS.

Total No. of W.T. BULKHEADS in Vessel—						Casting or Forging.	Scantlings. M.M.	Maker's Name.	Any departure from approved plans to be noted.
Extending to Upper Deck (Sec. 3 c)									
,, Deck next below									
As per Rule									
		Plating Thickness.	STIFFENERS.						
			VERTICAL.		HORIZONTAL.				
			Scantlings.	Spacing.	Scantlings.	Spacing.			
MIDSHIP BULKHD.	Upper tween decks	Frame N ^{<u>o</u>} 46	34-28	6x3x32 BA	31 1/2				
"	"	Frame N ^{<u>o</u>} 65	26-40	6x3x34 A	31 1/2				
"	"	Second " "	38-26	6x3x42	27 1/2				
"	"	Frame N ^{<u>o</u>} 70							
"	"	Third Bridge	40-36	7x3x36	22 1/2				
"	"	After peak frame N ^{<u>o</u>} 8							
"	"	Holds	34-36	5x3x30	22 1/2				
"	"	Frame N ^{<u>o</u>} 109.	36-30	5x3x32					
"	"	(in Hold)	28-26	3x2 1/2 x 30	17 1/2 19				
"	"	Frame N ^{<u>o</u>} 10.	30-32	3x3x30	22 1/2				
"	"	"							
AFTER PEAK									
						KEEL, Bar			
						STEM			
						Stern Frame { Propeller Post			
						{ Rudder "			
						Rudder—AxD.....			
						Speed of Vessel.....			
						Rudder mainpiece at head ...			
						" " heel ...			
						" how constructed			
						" double or single plate			
						coupling, vertical or 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 Cargo Fleet Iron Co., Ltd., Middlesbrough; Dorman, Long & Co., Ltd., Britannia Works; Frodingham Iron & Steel Co., Ltd., Scunthorpe; David Colville, Sons, Ltd., Glasgow; Pease & Partners, Ltd., Skimmingrove Iron Works, Collingwood, Yorkshire; Mannesmannröhren-Werke, A.G., Grillo-Funk, Gelsenkirchen-Schalke.	
	Has the Steel been tested as required by the Rules? Yes	

EQUIPMENT No. 11949										LETTER "n"				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.					
2013	1st Bower	25	3	4				26	0	0	0	25 1/2	Halls Patent	N. K. A. F.	Ref. 9-1-31. L.W.		
2014	2nd "	25	0	8				25	3	0	0	25 1/2	" — " —	" —	" — " — " —		
2015	3rd "	25	0	12				25	3	0	0	22	" — " —	" —	" — " — " —		
	Collective weight.	75	3	24								73 1/2					
2016	Stream	6	2	12	1	2	16	9	0	0	0	6 1/2 ex stock	Common stock	" —	Ref. 10-1-31. L.W.		

CHAIN CABLES.										HAWSERS 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.	
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.
2107	90	1 1/2	0	0	108	1	2		210	1 1/2	Swedish	N. K. A. F.	Ref. 5-11-30. L.W.	TOWLINE	90	3 1/4	22.358	90	3 1/4
2115	120	1 1/2	0	0	138	2	3				" "	Ref. 15-12-30. L.W.	HAWSERS & WARPS		90	2 1/4	9.650	90	2 1/4
					26	3	5								90	1 3/4	8.3	90	1 3/4
Stream	75	3 1/2	26	420					75	3 1/2					120	2 1/2			

Steering Gear, Steam *Helsingborgs Varvs- & Svetsnings AB.* Steering Gear, Hand *Wheel & Screw.*
2 life boats *35.61 x 1.93 x 0.76*
Boats *1 working boat.* Steering Chains, Size and Test *16" 16-18-0-0. (Ref. No. 2116. 12-1-6* Windlass *Steam. H.U. & Co. AB.*
Ceiling in Holds, thickness and material *2 1/2" Swedish pine.* Cargo Battens, thickness, material and spacing *6" x 2" Swed. pine. Spac. 9"*
Cargo Hatchways. (Upper Deck) *Steel coamings.* Thickness of Hatches *2 1/2" Swedish pine.*
Size of No. 1 Hatchway (Forward) *29'-2" x 15'-0"* No. 2 *29'-2" x 15'-0"* No. 3 *24'-11" x 15'-0"* No. 4 *24'-11" x 15'-0"* No. 5 *✓* No. 6 *✓*
Number of Shifting Beams *and/or Fore and Afters* *No. 1, 2 batches = 5; No. 3, 4 batches = 4.*

Builder's Signature *Helsingborgs Varvs- & Svetsnings Aktiebolag*
[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 Class contemplated. The workmanship is good. The materials are good. Forgings and castings as per Certificates attached.
All the double bottom tanks, the Aft tank, the Fore Peak have been tested as per Rule.
The decks, gutterways, cargo doors, scuppers, hatchways, w.t. b'ids, shaft tunnel, w.t. door etc. have been tested with water from a hose and found tight.
The steering engine, gears, windlass tested under steam.
The tarpaulins specially examined, tested with water and found satisfactory.
The free board marks have been cut in on the vessels sides, 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 *£Ks. 91:00* Fees applied for, *27-1 1931*
Special Survey Fee.... *£Ks. 2100:57* Received by me, *5/2/31*
Testing of boat davits *Ks. 25:00*
Travelling Expenses, if any *£Ks. 19:00*
Surveyors Fee for overtime *Ks. 25:00*
State whether the Vessel has been built under Special Survey *Yes.* Signature *F. Aresow.*
Certificate to be sent to *Surv. Office Hbg.* Date of issue *17/2/31* Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE. 17 FEB 1931*
Character assigned *+ 100 A1*
Strengthened for Navigation in Ice
Lloyd's accp. + dmb. 1.31 O.G.
[Signature]

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.)

No sister vessel has previously been built.

The following plans are forwarded in separate cover:

Midship Section.

Profile & deck plan.

Expansion of shell plating, watertight bulkheads, tank top.

Engine & thrust seating.

Main deck.

Fore peak and WT bhd No 109.

After " " " " 9

Beam brackets.

Fore stem.

Stern frame & rudder.

Rudder quadrant.

Watertight doors.

" " " drums.

Hold ladders.

Hatch for coal shoot

General plan and Tonnage openings forwarded together with the freeboard Report.

Correspondence:

Secr. letters, initiated "E" of the 9th, 12th, 21st October, 1929; of the 8th November, 1929, of the 30th July, 1930, of the 27th Sept. 1930, of the 24th November, 1930, 23rd December, 1930; "M" of the 13th January, 1931.
Secretary's letters addressed to the Gov. Surv. of the 21st August & 8th October, 1929, & of the 14th November, 1930.

Part of the above Surveys was at the Builders specially request held on Tuesday the 28th October, 1930, from 6³⁰ - 9³⁰ pm.

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

1st Bower	842 Kcs.	AB	6359	27.12.30
2nd "	825 "	AB	6361	27.12.30
3rd "	824 "	AB	6360	27.12.30.

55' (Ruffed report)

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 16.74 ft., R.Q.D. 1.9 ft., Bridge 62.38 ft., Forecastle 26.8 ft.
(in feet and tenths). When the Poop is joined to the B.D. this should be distinctly stated Yes, see 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.	Water Capacity.	Where Fitted.	*Length.	Water Capacity.
	Feet.	Tons.		Feet.	Tons.
Double bottom, aft, <i>No 5, 6 tanks</i>	60.01	105.5	Fore peak tank,	✓	✓
Double bottom, <i>in centre</i> under Engines and Boilers, <i>Fresh water</i>	22.50	10.5	After peak tank,	✓	62
Double bottom, <i>if</i> under Engines <i>only</i> , <i>p.e.s. pipes.</i>		38.0	Deep tank, aft,	✓	✓
Double bottom, <i>if</i> under Boilers <i>only</i> ,	16.88	37.0	Deep tank, forward,	✓	✓
Double bottom, forward, <i>No 1, 2 tanks</i>	86.27	152.0	Other tanks, if fitted, <i>Fresh water tank aft in peak.</i>	✓	7
	Total capacity of double bottom	343.0	(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. 6

Date 16.3.1929.

Dates of Surveys held while building

1930 April: 6. July: 4.17; Aug: 13.16.19.22; Sept: 9.14.20.22.25.26.27.29. Oct: 3.4.7.9.17.18.20.23.24. 25.28.29.31; Nov: 3.4.6.7.8.10.11.12.13.14.15.20.21.22.24.25.26.27.28.28.29. Dec: 1.3.6.9.13.15.15.16.17. 18.20.22.24.30.31; 1931 Jan: 3.10.10.13.14.15.17.20.

Lloyd's Register Foundation
Total No. of Visits 72.