

STEEL STEAMER or MOTORSHIP.

NIN RICARDO
Received at London Office 8 MAY 1929State 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 *3rd May 1929*Port of *Göteborg*No. *7504*Survey held at *Göteborg*Date First Survey *9th August, 1928*Last Survey *28th April*

1929

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

Twin Screw Motor Ship "NAGARA"

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

Complete Superstructure with Tonnage Opening State Type of Erections *Fels on Shells etc.*

TONNAGE under Tonnage Deck...

*5566.69*CLASS *+ 100 A.1*State if with freeboard as condition of Class *Yes*Built at *Göteborg*

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)

FEET.

*L 435.0*Launched *26th Feb. 1929* Yard No. *416*

Total

Breadth (greatest moulded) *B 57.0*Builders *A.B. Götaverken*

Gross Tonnage

6525.02

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

*D 41.0*Owners *A.B. Svenska Ostasiatiska Komp.*

Register Tonnage

*3979.75*1st Longitudinal Number (L x D) *(1596) = 17183*Managers *S. Borin*

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

2nd Numeral L x (B + D) *(3900) = 41978*Residence *Göteborg*

REGISTERED DIMENSIONS.

Length

133.24 437.0

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

*18.71*Port of Registry *Göteborg*

Breadth

17.40 57.07

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

10.6

If surveyed while building, afloat, or in dry dock

Depth

*8.70 28.52*Draught Moulded *26' 10 1/4"**Building, afloat & in floating dock.*

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP. m.m.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP. m.m.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	<i>710</i>		Bracket Floors, Frame	<i>✓</i>	
" " from 1/2 length to Collision bulkhead.....	<i>710</i>		" " Reversed Frame	<i>✓</i>	
" " in peaks.....	<i>610</i>		" " Vertical Struts	<i>✓</i>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>1150 x 14.5</i>	
Frame Amidships, Angle, <i>E or C</i>	<i>270 90 14</i>		" " top Angles <i>double</i>	<i>90 90 14</i>	
" " Extends up to	<i>2nd deck & Shell Dk. alt.</i>		" " bottom Angles <i>double</i>	<i>130 130 16</i>	
Reversed Frame Amidships, Angle	<i>✓</i>		Side Girders, No. each side and thickness	<i>2nd deck, 10.0 (alt.)</i>	
" " Extends up to...	<i>✓</i>		Margin Plate depth (excl. of flange) and thickness	<i>1040 x 14.0</i>	
Depth of Framing Girder.....	<i>270</i>		" " Vertical Angle to Tank side Bracket abaft 1/2 len. from stem	<i>140 140 12</i>	
Int. Frames in Uppermost Continuous 'tween Decks, Angle, <i>E or C</i>	<i>Int. of 1/2 len. aft 1/2 len. from stem</i>		" " Vertical Angle to Tank side Bracket forward 1/2 len. from stem	<i>140 140 12</i>	
" " Second 'tween Decks, Angle, <i>C or C</i>	<i>✓</i>		" " Gussets, spacing and scantling abaft 1/2 len. from stem.....	<i>90 90 12</i>	<i>alt.</i>
" " Third " " " "	<i>✓</i>		" " Gussets, spacing and scantling forward 1/2 len. from stem.....	<i>90 90 14</i>	<i>alt.</i>
Framing in Peaks, Angle or <i>C</i>	<i>200 85 11</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>1815 x 12</i>	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>7/8" 154</i>		INNER BOTTOM PLATING.		
State if Frame Joggled	<i>Yes</i>		Breadth and thickness of Middle Line Strake ...	<i>2200 x 12.5</i>	
PANTING ARRANGEMENTS (Sec. 7), state system and particulars)	<i>Web frames & stringers as per alt. plan.</i>	<i>✓</i>	Thickness of remainder in Holds	<i>11</i>	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>Int. of 1/2 len. aft 1/2 len. from stem</i>	<i>✓</i>	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?	<i>Yes</i>	
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds			Uppermost Continuous Deck, amidships in Wells, Angle, <i>E or C</i>	<i>200 75 9</i>	
Height of Brackets at side above base line at toe of frame			" " in way of Bridge, Angle, <i>C or C</i>	<i>✓</i>	
Middle Line Keelson, on Floors, Angles, <i>C or C</i>			Spacing	<i>710</i>	
" " Through Plate or Intercostal Plate...			Second Deck, amidships, Angle, <i>E or C</i>	<i>300 90 13</i>	
" " Foundation Plate on Floors			Spacing.....	<i>1420</i>	
" " Flat Plate Keel Angles			Third Deck, amidships, Angle, <i>E or C</i>	<i>280 90 13</i>	
Side Keelsons, No. each side			Spacing.....	<i>1420</i>	
" " thickness of Intercostal Plate...			Fourth Deck, amidships, Angle, <i>C or C</i>	<i>✓</i>	
" " Angles			Spacing.....	<i>✓</i>	
DOUBLE BOTTOM.			Poop Deck, Angle, <i>C or C</i>	<i>✓</i>	
Solid Floors, thickness and spacing	<i>10.5 @ 710</i>		Spacing.....	<i>✓</i>	
" " Are Frame and Reversed Frame joggled?	<i>Yes</i>		Bridge Deck, Angle, <i>C or C</i>	<i>✓</i>	
Bracket Floors, breadth and thickness at middle line.....	<i>✓</i>		Spacing	<i>✓</i>	
" " breadth and thickness at margin plate.....	<i>✓</i>		Forecastle Deck, Angle, <i>E or C</i>	<i>200 75 11</i>	
			Spacing	<i>710</i>	

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.....	Two		Stringer Plate, breadth and thickness in way of Bridge	✓	
„ in 'tween Decks, Size and Spacing.....	Wide Spaced		Thickness of Plating abreast Deck openings in way of Wells	11.5	
„ „ „ „ „	Pillars & Joints		Thickness of Plating abreast Deck openings in way of Bridge	✓	
„ in Holds „ „	See plan		Thickness of Plating within line of openings...	10.5	
„ „ „ „ „			If Sheathed, material and thickness	✓	
Centre Line Bulkhead.			Third Deck. (forward)		
Stiffeners and Spacing.....			Stringer Plate, breadth and thickness.....	20.5 x 9.5	
Plating, thickness of	✓		If Plated, state thickness.....	8.5	
STRINGERS AND DECKS.			Fourth Deck.		
Uppermost Continuous Deck.			Stringer Plate, breadth and thickness.....		
Stringer Plate, breadth and thickness in Wells	20.5 x 12.5		If Plated, state thickness		
„ „ „ „ in way of Bridge	✓		Poop Deck.		
„ Angle in Wells	150 150 13	approx. 12.5	Stringer Plate, breadth and thickness		
Thickness of Plating abreast Deck openings in way of Wells	12.5		Plating, Sheathing, material and thickness ...		
Thickness of Plating abreast Deck openings in way of Bridge	✓		Bridge Deck.		
Thickness of Plating within line of openings...	10.0		Stringer Plate, breadth and thickness.....		
If Sheathed, material and thickness	✓		Plating, Sheathing, material and thickness ...		
Second Deck.			Forecastle Deck.		
Stringer Plate, breadth and thickness in Wells...	20.5 x 11.0		Stringer Plate, breadth and thickness	9.0	
			Plating, Sheathing, material and thickness ...	9.0 with sheathing	

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. State if joggled?		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.	
FLAT PLATE KEEL	1370	21.5	19	19		double	25	101	4	25	94	overlap
„ DBLG. (if any)												
BOTTOM PLATING, No. of Strakes		15.5	16.5+14	13		double	22	87	4	22	90	overlap
BILGE PLATING, No. of Strakes		15.5	12	12		double						
SIDE PLATING, No. of Strakes		15.5	12	12		double			3		80	
UPPER DECK, Sheer-strake in Wells.....	1800	17.5	12	12		double			4		90	
UPPER DECK, Sheer-strake in Bridge ...		17.5	12	12		double						
STRAKE BELOW Sheer-strake in Wells.....	1985	15.5	12	12		double	22	87	4	22	90	overlap
STRAKE BELOW Sheer-strake in Bridge ...			12	12		double	22	87	4	22	90	overlap
POOP SIDE PLATING												
BRIDGE SIDE PLATING ...												
FOREC'TLE SIDE PLATING			10.5			single	22	90	2.	22	80	overlap

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—	
Extending to Upper Deck (Sec. 3 c)	1 (Coll. Bulk. to Forecastle Deck)
„ Deck next below	6
As per Rule	1 to Shell, 6 to 2nd.

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D , Upper tween decks					
„ „ Second „					
„ „ Third „	120	7.0	14.0	7.0	8.55
„ „ Holds		7.5-11.0	280 x 90	8.5	8.55
COLLISION „ (in Hold)		8.0-13.0	160 x 70	10.5	6.80
AFTER PEAK „ „		6.5-11.0	150 x 75	10.5	6.10

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL , Bar	✓	Flat plate keel		
STEM	✓	265 x 66		
STERN FRAME	✓	✓	A.B. Lindholm	
	✓	265 x 86	Motals.	
RUDDER —A x D. (netin)	✓	1967	A.B. Lindholm	
Speed of Vessel	✓	13 knots	Motals	
RUDDER mainpiece at head ...		308		
„ „ heel ...		230		
„ how constructed		Bratt Anna skunk		
„ double or single plate coupling, vertical or horizontal.....	✓	Single		

STEEL.	Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)
	Vereingte Stahlwerke AG. Hamborn a. Rh.; Witkowitz Bergbau und Eisenhütte; Vereingte Stahlwerke AG. Hoesler Verein; Gutehoffnungshütte Walzwerk. Oberhausen.
	Has the Steel been tested as required by the Rules? Yes.

EQUIPMENT No. 43311										LETTER C+	ANCHORS.	
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	
31368	1st Bower ...	77	3	0				57	12	2	0	Byers Improved Steelies
31369	2nd " ...	76	3	0				57	5	0	0	"
31359	3rd " ...	65	3	14				51	10	0	0	"
	Collective weight.	220	1	14					219 1/2			"
43834	Stream	22	0	12	5	2	16	22	9	1	14	Ordinary Japans Wrought Iron.

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.			
	Length.	Diam.	Statur- ing.	Break- ing.	Supplied.	Per Rule.	Length.	Diam.					Length.	Ins.		Length.	Ins.	Length.	Ins.
63908	150½	27/16	106.9	149.62	447. 2. 8	890¼	300	27/16	Stud.	J. Lought & Co.	Jipton, 27/9/28, W.A.	TOWLINE... Drysdale S.W.	240	5¾	79.25	130	5¾		
63909	150½	27/16	106.9	149.62	447. 2. 18		300½	27/16	"	"	"		"	HAWSERS & WARPS S.W.	40 1/2	3½	26.42	200	2¾
	300½				895.0.26								20 1/2	2¼	15.75	200	2¾		
Iron Steam Chain or Steel Wire	220 inches	5		59.94			120	5	Stud wire				40 100	8	Manilla				

Steering Gear, Steam
Electro Hydraulic by Dumbres.
Steering Gear, Hand
none

Boats
2 @ 26' x 8' x 3-25'.
Steering Chains, Size and Test
890 1/4
Windlass
Electric by Clarke Chapman

Ceiling in Holds, thickness and material
2 1/2 pine
Cargo Battens, thickness, material and spacing
6 x 2" pine, 9'

Cargo Hatchways.-(Upper Deck)
Steel Corrugated 32" high
Thickness of Hatches
2 1/2"

Size of No. 1 Hatchway (Forward)
25'6" x 18'
No. 2
37'2" x 18'
No. 3
28'0" x 18'
No. 4
37'2" x 18'
No. 5
28'0" x 18'
No. 6
:

Number of Shifting Beams and/or Fore and Afters
5 in No 1, 3 & 5; 7 in No 2 & 4

Builder's Signature
Karl Bolaget Götaverken

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel Yes. (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo part, see below The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

The materials & workmanship are good. The vessel has been built in accordance with the approved plans & instructions, the Secretary's letters of various dates & in conformity with the Rules for the class contemplated.

The tanks, decks, bulkheads, tunnels & w.t. door have been tested in accordance with the Rules, & the requirements of Sec 20 of the Rules have been complied with where applicable. The freeboards have been verified & the freeboard marks cut in on the vessels sides.

The vessel is constructed to carry oil fuel in the double bottom tanks and in the after wing tanks. The lubricating oil & fresh water is carried in the centre portion of the double bottom under the engine and fuel oil at the sides. The flash point of the oil fuel is about 150°F.

The forward wing tanks (frames 40-75) and No 5 D.B. tank are arranged to carry vegetable oil.

The amount of Entry Fee 218.40
Special Survey Fee.... 182.00
Travelling Expenses, if any 1Kr. : 17 : 40

Fees applied for,
4th May 1929
Received by me,
27.5.29

I am of opinion the Vessel should be Classed + 100 A.1. with freeboard.
"Carrying Vegetable Oil in wing tanks and in No 5 double bottom tank."
Signature
Geo. Webster.
Surveyor to Lloyd's Register of Shipping.

State whether the Vessel has been built under Special Survey
Yes.
Certificate to be sent to
Göteborg.
Date of issue
22/5/29

Committee's Minute
TUE. 14 MAY 1929

Character assigned
+ 100 A1 With Freeboard
Carrying Vegetable Oil in No 5 D.B. Tank and in Tanks in way of Tunnels also in deep tanks fitted 3-44

Lloyd's A&CP
+ L.M.P. 4.29 cr.
Oil Engines

Wick-Sjö

Lloyd's Register Foundation

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:—

Shell Expansion
Engine Seats
Aft Peak
Painting Arrangements
Russet Angles.

The following plans approved in this office are now forwarded:—

Wing Tanks
Support of Beams in wing tanks
Stern Frame & Rudder
Midship Section
Profile & Decks.
Bulkheads

Also Steaming Plan
and Midship Section & Profile & Decks as built

Inquiry & Casting reports also forwarded

Note. Please return plans for dealing with Sister vessel

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

1st Bower 47. 0. 4; M.B.; 3845; 17.7.28;
2nd „ 47. 0. 4; M.B.; 3846; 17.7.28;
3rd „ 36. 3. 21; M.B.; 3878; 17.7.28;

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop _____ ft., R.Q.D. _____ ft., Bridge _____ ft., ^{1/2 height} Forecastle 43. ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

1 dk (shl) and shl. dk (shl.) 3rd dk (shl.) in forward hold.

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

Official No. 7514

; Signal Letters K.G.R.L.

Is bottom of Vessel coated with cement Part. if not give

particulars of composition Cement in Fore Peak & aft Peak.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft, 11.5. W.B. or Vap. Oil. 11.6. W.B. or O.F. (65.5)	130	360.	Fore peak tank, dry.		
Double bottom, under Engines and Boilers,			After peak tank, W.B.	20	59.
Double bottom, if under Engines only, O.F. 11.5. F.W. 37.5; L.O. 26.5	44.5	257	Deep tanks aft, (30-39) W.B. or O.F. (73.5 tanks)	21	84
Double bottom, if under Boilers only,			Deep tanks forward, (40-75) W.B. or Vap. Oil.	82	60.5
Double bottom, forward, W.B. or O.F. (633)	194.	718.	Other tanks, if fitted, Deep Tanks, 651. R.P.M. 13556, 344	28	90.4
Total capacity of double bottom		1335	(If necessary, furnish further information by sketch.)		

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

Total length of double bottom = 368.5 ft.

Order for Special Survey No. 145

Date 29th August, 1928

Dates of Surveys held while building

1928 Aug 7. 28. 31. Sept 3. 10. 19. 24. 25. Oct 2. 11. 26. Nov 2. 7. 9. 16. 20. 26. 29. Dec 1. 11. 15. 17. 21. Jan 24. 25. 29. 30. Feb. 15. 22. 23. 25. March 11. 14. 21. 25. April 6. 8. 9. 10. 11. 12. 15. 17. 18. 19. 22. 23. 28.

Total No. of Visits 50

Lloyd's Register
Foundation