

## STEEL STEAMER or MOTORSHIP.

Received at London Office

FEB 20 1940

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 *13<sup>th</sup> Feb. 1940*Port of *Gothenburg*No. *12832*Survey held at *Gothenburg*Date First Survey *27<sup>th</sup> April 1939*

Last Survey

*Feb. 9<sup>th</sup>**1940*On the *(State if Machinery fitted with or without Tonnage Opening)* *Single Screw Motor Tanker "Andra Brövig" Machinery fitted aft*State Type *(Full Scantling, Complete Superstructure with or without Tonnage Opening)* *Full Scantling*State Type of Erections *Deck, Bridge & Mast*TONNAGE under Tonnage Deck *9347.27*CLASS *+ 100 A-1*

State if with freeboard as condition of Class

No.

Built at *Gothenburg*

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

Total *9347.27*Gross Tonnage *10172.86*Register Tonnage *6082.88*

Carrying Petroleum in bulk

Length from fore part of stem to after part of stern most on summer L.W.L. See Sec. 3 (1a) *L 488'2"*Breadth (greatest moulded) *B 64'0"*Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 38'2"*1st Longitudinal Number (L x D) *= 18100*2nd Numeral L x (B + D) *= 49343*Framing Depth "d" at middle of length. See Sec. 3 (1d) *12.79*Proportions—Depth to Length—Uppermost continuous deck to top of keel *29'6 3/8"*

Draught Moulded

Launched *15<sup>th</sup> Nov 1939*Yard No. *539*Builders *1/3 Götavarken*Owners *Partredariet Brövigskan, Farsund*Managers *Jh. Brövig*

(Where necessary to be entered in Reg. Book)

Residence *Farsund*Port of Registry *Farsund*

If surveyed while building, afloat, or in dry dock

*Building, afloat in floating dock.*

## FRAMES, DOUBLE BOTTOM AND BEAMS.

	IN SHIP.	Any Departure from Approved Plans to be Noted.		IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	<i>825</i>		Bracket Floors, Frame	<i>✓</i>	
" " from 1/2 length amidships to Collision bulkhead	<i>825, 900 &amp; 675</i>		" " Reversed Frame	<i>✓</i>	
" " in peaks	<i>670</i>		" " Vertical Struts	<i>✓</i>	
SIDE FRAMING.			Centre Girder, depth and thickness amidships	<i>1250 x 13</i>	<i>✓</i>
Frame Amidships, Angle, E or L	<i>250 90 12</i>		" " top Angles <i>Double</i>	<i>90 90 13</i>	<i>✓</i>
" " Extends up to	<i>Upper deck</i>		" " bottom Angles <i>Double</i>	<i>130 130 14.5</i>	<i>✓</i>
Bottom Reversed Frame Amidships, Angle L	<i>250 90 12</i>		Side Girders, No. each side and thickness	<i>2 @ 197</i>	<i>✓</i>
" " Extends up to	<i>Centre tank</i>		Margin Plate depth (excl. of flange) and thickness	<i>Level 147</i>	<i>✓</i>
Depth of Framing Girder	<i>250%</i>		" " Vertical Angle to Tank side	<i>✓</i>	
Frames in Uppermost Continuous 'tween Decks, Angle, L or R	<i>✓</i>		" " Bracket abaft 1/2 len. from stem	<i>✓</i>	
" " Second 'tween Decks, Angle, L or R	<i>✓</i>		" " Vertical Angle to Tank side	<i>✓</i>	
" " Third " " " "	<i>✓</i>		" " Bracket from forward 1/2 len. from stem to Panting Area	<i>✓</i>	
" " In Cargo Tanks " " " "	<i>250 90 12L</i>		" " Gussets, spacing and scantling abaft 1/2 len. from stem	<i>✓</i>	
" " from 1/2 len. for'd. to 1 1/2 len. from Stem. In dry Cargo Hold	<i>310 190 13L</i>		" " Gussets, spacing and scantling from forward 1/2 len. from stem to Panting Area	<i>✓</i>	
" " in Peaks, Angle, L or R	<i>230 90 11.5</i>		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>See plan</i>	<i>✓</i>
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	<i>22 @ 135</i>		INNER BOTTOM PLATING, in Motor Room	<i>See plan</i>	<i>✓</i>
State if Frame Joggled	<i>Bottom frames only</i>		Breadth and thickness of Middle Line Strake	<i>14.07</i>	<i>✓</i>
Are the scantlings and arrangements in the Panting Area in accordance with the Rules and/or as approved?	<i>Yes</i>		Thickness of remainder in Holds	<i>14.0</i>	<i>✓</i>
Are the scantlings and arrangements in way of the Bottom Forward in accordance with the Rules and/or as approved?	<i>Yes</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>	<i>✓</i>
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in Holds	<i>230 90 12.5</i>		Uppermost Continuous Deck, amidships	<i>200 90 10.5</i>	<i>✓</i>
Height of Brackets at side above base line at toe of frame	<i>1600 x 12.5</i>		" " in Way, Angle, E or L	<i>230 90 11</i>	<i>✓</i>
Middle Line Keelson, on Floor, Angles, E or L	<i>1600 x 12.5</i>		" " in way of Bridge, Angle, E or L	<i>825%</i>	<i>✓</i>
" " Through Plate or Intercoastal Plate	<i>✓</i>		Spacing	<i>✓</i>	
" " Foundation Plate on Floors	<i>Welded to Shell</i>		Second Deck, amidships, Angle, L or R	<i>✓</i>	
" " Flat Plate Keel Angles	<i>one in centre one in buoy tanks</i>		Spacing	<i>✓</i>	
Side Keelsons, No. each side	<i>1600 x 12.5</i>		Third Deck, amidships, Angle, L or R	<i>✓</i>	
Depth & thickness through thickness of Intercoastal Plate	<i>320 100 14</i>		Spacing	<i>✓</i>	
" " Angles Top L	<i>117 @ 825%</i>		Fourth Deck, amidships, Angle, L or R	<i>✓</i>	
DOUBLE BOTTOM. in Motor Room	<i>Frames only</i>		Spacing	<i>200 75 10</i>	<i>✓</i>
Solid Floors, thickness and spacing	<i>✓</i>		Poop Deck, Angle, E or L	<i>230 90 11</i>	<i>✓</i>
" " Are Frame and Reversed Frame joggled?	<i>✓</i>		Spacing	<i>610 &amp; 825</i>	<i>✓</i>
Bracket Floors, breadth and thickness at middle line	<i>✓</i>		Bridge Deck, Angle, E or L	<i>200 75 9</i>	<i>✓</i>
" " breadth and thickness at margin plate	<i>✓</i>		Spacing	<i>130 to 1155</i>	<i>✓</i>
			Forecastle Deck, Angle, E or L	<i>230 90 11</i>	<i>✓</i>
			Spacing	<i>675 &amp; 610</i>	<i>✓</i>



# PILLARS AND DECKS.

PILLARS, No. of Rows.....	IN SHIP.		Any Departure from Approved Plans to be Noted.		IN SHIP.		Any Departure from Approved Plans to be Noted.
Stringer Plate, breadth and thickness in way of Bridge .....	✓				✓		
Thickness of Plating abreast Deck openings in way of Wells .....	✓				✓		
Thickness of Plating abreast Deck openings in way of Bridge .....	✓				✓		
Thickness of Plating within line of openings...	✓				✓		
If Sheathed, material and thickness .....	✓				✓		
<b>Long Run</b>							
Center Line Bulkhead, in Tanks.....	✓				✓		
Stiffeners and Spacing.....	8.25	7	240 x 9.5 - 85 x 13	✓			
Plating, thickness of	from top	11.0, 10.0, 11.0, 11.5, 13.5		✓			
<b>STRINGERS AND DECKS.</b>							
Uppermost Continuous Deck.							
Stringer Plate, breadth and thickness in Wells	2375	22	✓				
" " " " in way of Bridge	2375	26	✓				
" " " " Angle in Wells	160	160	21	30 71-130 160-160-24 O.R.			
Thickness of Plating abreast Deck openings in way of Wells .....	22 7/8	✓					
Thickness of Plating abreast Deck openings in way of Bridge .....	—						
Thickness of Plating within line of openings...	12 7/8	✓					
If Sheathed, material and thickness .....							
<b>Second Deck, 3 Side Stringers</b>							
Stringer Plate, breadth and thickness in Wells	1300	11.5	✓				
	flanged or	safer	✓				
<b>Third Deck.</b>							
Stringer Plate, breadth and thickness.....	✓						
If Plated, state thickness.....	✓						
<b>Fourth Deck.</b>							
Stringer Plate, breadth and thickness.....	✓						
If Plated, state thickness .....	✓						
<b>Poep Deck.</b>							
Stringer Plate, breadth and thickness .....	9.5	✓					
Plating, Sheathing, material and thickness ...	6.5	O.P.	2 1/2	✓			
<b>Bridge Deck.</b>							
Stringer Plate, breadth and thickness.....	11.0	✓					
Plating Sheathing, material and thickness ...	9.0	O.P.	2 1/2	✓			
<b>Forecastle Deck.</b>							
Stringer Plate, breadth and thickness.....	9.5	✓					
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.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.				Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	<i>7 1/2</i>	<i>1 1/2</i>	<i>2</i>	<i>2 1/2</i>									
FLAT PLATE KEEL .....	2380	26.5	20	20		Double	25	90.6				Welded	
„ DBLG. (if any)													
BOTTOM PLATING, No. of Strakes ....	2e	18.5			1e 20.0 Owners requirement		22	90.6					
BILGE PLATING, No. of Strakes .....	1e	20.0	14.5	14.5			22	90.6					
SIDE PLATING, No. of Strakes .....		18.5	14.5	14.5			22	90.6					
UPPER DECK, Sheer-strake in Wells.....		18.0	13.5	13.5			2e 22	80.6					
UPPER DECK, Sheer-strake in Bridge ...							1e 22	90.6					
STRAKE BELOW Sheer-strake in Wells.....	1950	24.5	14	15.0	1950 x 24 1/2 — 14.0		25	90.6					
STRAKE BELOW Sheer-strake in Bridge ...													
POOP SIDE PLATING .....		10.5				Single	22	90					
BRIDGE SIDE PLATING ...		13.0											
FORECASTLE SIDE PLATING		11.0				Single	22	90					

## 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)					11 B4			
Deck next below					11 & 4 additional in Center Tanks			
As per Rule					8			
MIDSHIP BULKHEAD, Upper tween decks	Plating Thickness.	STIFFENERS.				KEEL, Bar .....		
		VERTICAL.		HORIZONTAL.		STEM .....		
	7/8	Scantlings.	Spacing.	Scantlings.	Spacing.	Stern Frame { Propeller Post } .....		
" " Second "						Rudder " } .....		
" " Third "						Speed of Vessel .....		
" " Holds .....	10.5/13.5	250	90 x 10.5	810	3 Horiz. Str.	RUDDER—Type .....		
" " (in Hold) .....	6.5/12.0	As appd plan	610	Peak Tank top		" A x D .....		
" " AFTER PEAK .....	7.5/11.0	"	610	As per plan		" Diam. of head .....		
Manufacturer's Name or Trade Mark of the Steel used in the construction of the Vessel (state process of manufacture)						" Mainpiece at top pintle		
Steel Co., Carnegie. Illinois Steel Corp., Kon. u. f. Stahl & Eisenwerke, Dortmund, Johs. Schürmann, August Thyssen, Hütte, Degussa Johs. Kalsen Johs., Deutsche Rohren-fabrik, A/S Notala Vld., Dortmund Hoesler.						" " heel ...		
Has the Steel been tested as required by the Rules?						" how constructed .....		
Yes.						" double or single plate coupling, vertical or horizontal.....		
						Worth Steel Co., Bethlehem		
						Open Hearth process.		



EQUIPMENT No.										LETTER <i>e + v</i>		ANCHORS.				
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.					
<i>3415</i>	1st Bower ...	<i>83</i>	<i>1</i>	<i>8</i>	✓			<i>60</i>	<i>10</i>	.	.	<i>81 1/2</i> ✓	<i>Guson Stockless</i>	<i>Otjofuson &amp; Co</i>	<i>Magdeburg. Buchau. 6. 12. 39</i>	
<i>3414</i>	2nd „ ...	<i>83</i>	<i>1</i>	<i>16</i>	✓			<i>60</i>	<i>10</i>	.	.	<i>81 1/2</i> ✓	"	"	"	
<i>3413</i>	3rd „ ...	<i>83</i>	<i>3</i>	<i>2</i>	✓			<i>60</i>	<i>10</i>	.	.	<i>81 1/2</i> ✓	"	"	"	
	Collective weight	<i>250</i>	<i>1</i>	<i>26</i>	✓							<i>244 1/2</i> ✓				
<i>3416</i>	Stream .....	<i>25</i>	<i>1</i>	<i>15</i>	✓	<i>6</i>	<i>1</i>	<i>23</i>	<i>25</i>	<i>8</i>	<i>0</i>	<i>14</i>	<i>25</i> ✓	<i>Common Stock.</i>	"	"

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.	Statu-tory.	Break-ing.	Supplied.	Per Rule.	Length.	Diam.	Length.					Ins.	Tons.		Length.	Ins.	
1759	304 1/2	2 9/16	16 1/2	17 1/2	1051.3	17	959	300	2 9/16	Stud Link	Jakobhoffingshute	26.10.37 Jul. Rugst.	TOWLINE..	130	5 1/2	84 1/10	130	5 1/2	
													HAWSERS & WARPS	40	3 1/4	25 7/10	20	2 3/4	
														100	3 1/4	25 7/10	100	2 3/4	
														20	3 1/4	25 7/10	20	2 3/4	
														90	3 1/4	25 7/10	100	2 3/4	
East Stream Shallow-water Steel Wire	120	4 3/4	16 1/2	17 1/2				120	4 3/4										

Steering Gear, Type (Power or hand) *Electric by T.B. Thruge, Denmark.* Alternative Means of Steering *Block & Tackle to Winch on Hoop.*

Steering Chains (Size and Test) *✓* Windlass *Steam by Pines, Arndel* Boats *3 e 22'0" x 7'3" x 2'9"*  
*1 e 20'0" x 6'9" x 2'7"*  
*1 e 20'0" x 6'9" x 2'7"* (1 Motor)

Ceiling in Holds, thickness and material *None* Cargo Battens, thickness, material and spacing *None*

Cargo Hatchways. (Upper Deck) *10 1/2" Steel Corners 815% high. O.T.* Thickness of Hatches *12.5% Stamped Steel Covers.*

Size of Hatchways *No. 1 (Full) 1700 x 715* No. 2 No. 3 No. 4 No. 5 No. 6

Number of Shifting Beams and/or Fore and Afters *None.*

Builder's Signature *AKTIEBOLAGET GÖTAVERKEN*

GENERAL DECLARATION. It should be stated (a) whether the vessel (if not a motorship) is fitted for the carriage and burning of oil used as fuel *Motor ship*  
 (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo *Oil Tanker* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point (where required to be inserted in the Notation).

*The vessel has been built in accordance with the approved plans & instructions, the Secretary's letters of various dates & in conformity with the Rules (1935/9) for the class contemplated. The materials & workmanship are good. The ship is constructed to carry Petroleum in bulk. The ship is also constructed to carry oil fuel in the double bottom under the machinery, in the oil fuel wing tanks at fwd. end of engine space, in the forward deep tank & in the upper after peak tank. The flash point of the oil fuel is above 150°F. Lubricating oil is carried in the centre portion of the double bottom under the engine. The tanks, cofferdams, bulkheads, decks & W.T. doors on deck have been tested in accordance with the Rules. The requirements of Sect. 20 of the Rules have been complied with where applicable.*

*The fireboards have been verified & the marks cut in on the vessel's sides. Windlass & steering arrangements tried under working conditions see letter 12/3/40*

The amount of Entry Fee ..... *kr. 228.00* Fees applied for, *12th Feb. 1940* (Special notations, where part of class, to be stated.)

Special Survey Fee.. *kr. 12986.25* Received by me, *29-2 1940*

*Freight fee* *kr. 450.00*

*Travelling Expenses, if any* *kr. 6.15*

*Sunday fee* *kr. 80.00*

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

I am of opinion the Vessel should be Classed *100 A.1*  
*"Carrying Petroleum in Bulk"*

Signature *H. J. Adams.*  
 Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to *Göteborg* Date of issue *1/3/40*

FRI. 23 FEB 1940

Committee's Minute

Character assigned *+ 100 A.1*  
*Carrying petroleum in bulk*  
*Build of Shell & X. platg. Elec. weld.*  
*Lloyd's incl.*  
*of. E.S.D.*  
*Write for*

*100 + Link 2.40*  
*100 2 2 1/2 - 150th*

*Oil 2000*  
*Ch*

Lloyd's Register Foundation

W1165-0189 211



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.)

This vessel is a sister vessel to M/S Aristophanes, Yard no 537. Got. 1<sup>st</sup> E Report No 12755.

Approved plans now forwarded

Midship Section

Longitudinal Section & plans

Shell expansion

After peak

For peak & deep tank

Double bottom & Engine Seating

Stern frame & Rudder

Stem

Net frames in Engine Rm.

O.T. End. frs. 107-110

" frs 161-162

Fuel Oil Tank frs 40-46

As fitted plans now forwarded

Midship Section

Longitudinal Section & plans

Shell plan.

Copy of interim certificate attached

Forging & Casting reports in respect of:— Main rudder quadrant, pinion shaft, Sternframe, Rudder Stock, Rudder mainpiece bearings to, Rudder head, Kelvin davits (2).

PARTICULARS OF ELECTRIC WELDING (if employed) Butts of shell & upper deck plating, transverse O.T. bulkheads excluding boundaries, butts of longitudinal bottom & deck girders in tanks, bottom <sup>girders</sup> & side stringers to shell, longitudinal & transverse bulkhead stringers to bulkheads, & other details.

Electrode O.K. 52 P. has been used.

SPECIAL NOTATIONS:—Either as part of the vessel's class or for record in the Register Book

"Carrying Petroleum in Bulk", ✓

Butts of shell & deck plating electrically welded. ✓

Machinery aft. Cruiser stern, Welders, D.F., E.S.D.,

	Tons	Head	Tons	Shank
Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.	1st Bower	53.3.0 N.S. 2372 20.11.39	24.1.14 N.S. 2376 20.11.39.	
	2nd "	53.3.2 N.S. 2371 20.11.39	24.0.11 N.S. 2375 20.11.39.	
	3rd "	54.3.20 N.S. 2370 20.11.39	23.3.10 N.S. 2374 20.11.39.	
	Stream	24.1.16 N.S. 2384 1.12.39		

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 96.0 ft., R.Q.D. ✓ ft., Bridge 35.6 ft., Forecastle 64.0 ft. (in feet and tenths). When the Poop or Forecastle are joined to the B.D., this should be distinctly stated

Official No. Signal Letters LKLC Extreme Breadth over Belting (Circ. 1611) Over-all Length (Circ. 1703) 515'2"

No. and Material of Decks ✓

Parts of Bottom of Vessel coated with cement or approved composition

hls, & in After Peak Tank.

Cement in fore peak tank for Engine Rm.

Particulars of composition (if fitted) and of approval ✓

PARTICULARS OF WATER BALLAST:—(Comprising all tanks which may be used for Water Ballast. (Circ. 1284) Wells are not to be included in the lengths of the tanks, but Cofferdams and Dry Tanks (if tested) are to be included.)

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,		—	Fore peak tank, W.B.	25.6 ✓	130 ✓
Double bottom, under Engines and Boilers,		—	After peak tank, O.F. 292 tons W.B. 98 tons	30.0 ✓	390
Double bottom, if under Engines only, O.F. & F.W.	81.6	342.00	Deep tank, aft, long tanks. P15. O.F.	19.0	545.
Double bottom, if under Boilers only,		—	Deep tank, forward, O.F. & W.B.	24.4 ✓	328 ✓
Double bottom, forward,		—	Other tanks, if fitted,		—
Total length (if continuous) and Capacity		—	(If necessary, furnish further information by sketch.)		—
Lubricating Oil Tanks	28.7 m <sup>3</sup> (Total)				

Order for Special Survey No. 219

Date

20.4.38

Dates of Surveys held while building

1939:— Apr. 27, May 16, 20, 22, June 1, 2, 5, 6, 7, 15, 16, 19, 20, 22, 30 July 4, 6, 8, 10, 11, 12, 14, 18, 19, 20, 24, 31 Aug. 2, 4, 7, 8, 9, 12, 15, 16, 30. Sept. 5, 7, 8, 11, 13, 14, 15, 16, 18, 19, 21, 22, 26, 28 Oct. 2, 3, 5, 11, 14, 16, 18, 20, 21, 23, 24, 26, 27, 30, 31. Nov. 1, 2, 3, 4, 7, 8, 10, 13, 14, 15, 16, 17, 18, 20, 22, 24, 28, 29. Dec. 1, 2, 5, 6, 9, 12, 13, 14, 16, 20, 27. 1940:— Jan 2, 3, 9, 15, 16, 17, 18, 19, 20, 21, 23, 26, 29, 30, 31 Feb. 1, 3, 5, 6, 7, 8.

Total No. of Visits 115