

STEEL STEAMER or MOTORSHIP.

Received at London Office 11 OCT 1930

State if Report has been sent on the Freeboard of the Vessel *No*State if Report is sent on the Machinery of the Vessel *Yes*

Date of completion of report

2nd October, 1930

Port of

Göthenburg

No.

8090

Survey held at

Göthenburg

Date First Survey 21st December 1929Last Survey 8th October

1930

On the (State if Machinery fitted Aft and

Twin Screw Motor Ship G.C. BRÖVIQ Machinery aft

State Type (Full Scantling, Complete Superstructure

with or without Tonnage Openings)

Full Scantling

Carrying Petroleum in Bulk

State Type of Erections

Tale & Props

TONNAGE under

Tonnage Deck...}

8986.60

CLASS +100. F.I.

State if with freeboard

No

as condition of Class

Built at

Göthenburg

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)

L 474.0

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 37.25

1st Longitudinal Number (L x D) (METRIC)

1640

= 17656

2nd Numeral L x (B + D) (METRIC)

4458

= 47992

Framing Depth "d," at middle of length. See

Sec. 3 (1d)

✓

Proportions—Depth to Length—Uppermost con-

tinuous deck to top of keel

12.72

Do. Long Bridge to top

✓

Draught Moulded

27.15

Launched 26th July, 1930

Yard No. 437

Builders A.B. Götavarken

Owners Th. Brövig

Managers

(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 & on floating dock

FRAMES, DOUBLE BOTTOM AND BEAMS.

	IN SHIP. M.M.	Any Departure from Approved Plans to be Noted.		IN SHIP. M.M.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	825		Bracket Floors, Frame	✓	
" " from $\frac{3}{4}$ length to Collision	675		" " Reversed Frame	✓	
" " in peaks	610		" " Vertical Struts	✓	
FRAMING.			Centre Girder, depth and thickness amidships	2000 12.	
SIDE			" " top Angles DOUBLE	90 90 13.	
Frame Amidships, Angle, E or C	250 90 12		" " bottom Angles DOUBLE	130 130 15.	
" " Extends up to	Upper deck		Side Girders, No. each side and thickness	2 @ 15	
BOTTOM			Margin Plate depth (excl. of flange) and	14 T.T. flush	
Reversed Frame Amidships, Angle	280 90 12		" " Vertical Angle to Tank side		
" " Extends up to	Longh. Bulkhd.		" " Bracket abaft $\frac{1}{4}$ len. from		
Depth of Framing Girder	250 & 280		" " stem		
Frames in Uppermost Continuous 'tween	✓		" " Vertical Angle to Tank side		
Decks, Angle, C or E	✓		" " Bracket forward $\frac{1}{4}$ len. from		
" " Second 'tween Decks, Angle, C or E	✓		" " stem		
" " Third " " " "	✓		" " Gussets, spacing and scantling		
Framing in Peaks, Angle, E or C	230 90 12.5		" " abaft $\frac{1}{4}$ len. from stem		
Diameter and Spacing of Rivets through	22 @ 135		" " Gussets, spacing and scantling		
Frame and Shell Plating amid-	25 @ 150		" " forward $\frac{1}{4}$ len. from stem		
ships			Tank Side Brackets, height above base line	See plan	
State if Frame Joggled	Yes.		at toe of Frame and thickness		
PANTING ARRANGEMENTS (Sec. 7), state	Deep framing		INNER BOTTOM PLATING, IN MOTOR ROOM.		
system and particulars	2 stringers & 20 per appd. Plan		Breadth and thickness of Middle Line Strake	2980 14	
STRENGTHENING OF BOTTOM FOR-	90 x 90 x 12 back bar		Thickness of remainder in Holds	14	
WARD. State Particulars	in 1st hold & fwd.		Are Rule requirements complied with regarding	Yes	
	deep tank, extra		increases of scantlings in way of double		
	girder & increased		bottom in E. & B. space and framing in		
	shell		Bankers and Boiler Room?		
SINGLE BOTTOM.			BEAMS.		
Floors, Depth and thickness at mid-line in	✓		Uppermost Continuous Deck, amidships	200 90 10.5	centre
Holds	✓		" " in Wells, Angle, E or C	230 90 11.	side
Height of Brackets at side above	✓		" " in way of Bridge, Angle,	✓	
base line at toe of frame	✓		" " C or E		
Middle Line Keelson, on Floors, Angles,	✓		Spacing	825	
" " " " " "			Second Deck, amidships, Angle, C or E		
" " " " " "	1600 x 14	appr. 12.5	Spacing		
" " " " " "	250 90 11.	double	Third Deck, amidships, Angle, C or E		
" " " " " "	150 150 13	double	Spacing		
" " " " " "	one in centre		Fourth Deck, amidships, Angle, C or E		
Side Keelsons, No. each side	back one in		Spacing		
DEPTH & THROUGH	side tank		POOP DECK, Angle, E or C	230 90 12.5	
thickness of Intercoastal Plate	1600 x 12.5		" " " "	200 90 11.	
" " " " " "	280 90 12.5	Single	" " " "	200 75 10.	
" " " " " "	150 150 13.	appd. 140 x 140 x 14.	Spacing	825	
DOUBLE BOTTOM. IN MOTOR ROOM			Bridge Deck, Angle, E or C	150 75 10.	
Solid Floors, thickness and spacing	11 @ 825		Spacing	1030	
" " " " " "	Frames only		Forecastle Deck, Angle, E or C	200 75 10.	
" " " " " "	✓		Spacing	675 & 610	
Bracket Floors, breadth and thickness at	✓				
middle line	✓				
" " " " " "	✓				
breadth and thickness at	✓				
margin plate	✓				

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.
	M	M			M	M	
PILLARS, No. of Rows.....							
" in 'tween Decks, Size and Spacing.....							
" " " " "							
" in Holds.....							
2 Longitudinal " " "							
Centre Line Bulkhead.							
Stiffeners and Spacing.....	240	9.5	85	13			
Plating, thickness of	11.	10.	13.5				
STRINGERS AND DECKS.							
Uppermost Continuous Deck.							
Stringer Plate, breadth and thickness in Wells	2375	23.	appr. 21.5				
" " " " in way of Bridge							
" Angle in Wells	160	160	21.				
Thickness of Plating abreast Deck openings } in way of Wells		20.					
Thickness of Plating abreast Deck openings } in way of Bridge							
Thickness of Plating within line of openings...		12.					
If Sheathed, material and thickness							
Horizontal girders in wing tanks							
Second Deck.							
Stringer Plate, breadth and thickness in Wells	1300	11.5					
Stringer Plate, breadth and thickness in way of Bridge							
" Angle in Wells							
Thickness of Plating abreast Deck openings } in way of Wells		20.					
Thickness of Plating abreast Deck openings } in way of Bridge							
Thickness of Plating within line of openings...		12.					
If Sheathed, material and thickness							
Third Deck.							
Stringer Plate, breadth and thickness.....							
If Plated, state thickness.....							
Fourth Deck.							
Stringer Plate, breadth and thickness.....							
If Plated, state thickness							
Poop Deck.							
Stringer Plate, breadth and thickness		9.5					
Plating, Sheathing, material and thickness ...	6.5	2 1/2	" O.P.				
Bridge Deck.							
Stringer Plate, breadth and thickness.....	2300	6.5					
Plating, Sheathing, material and thickness ...	6.5	2 1/2	" O.P.				
Forecastle Deck.							
Stringer Plate, breadth and thickness.....		9.5					
Plating, Sheathing, material and thickness ...		9.0	none				

SHELL PLATING.

STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	RIVETING.					
	AMIDSHIPS.		FORWARD.	AFT.		EDGES		BUTTS.			
	Breadth.		Thickness.	Thickness.		State if Joggled?		No. of Rows of Rivets.		Rivets.	
	Thickness.	Thickness.	Thickness.	Thickness.		Single or Double.	Rivets.	Diam.	Spacing or to cr.	Diam.	Spacing or to cr.
FLAT PLATE KEEL	2380	28.	19.	19.	appr. 26.5	double	25	90.6	3	28	120
" DBLG. (if any)											
BOTTOM PLATING, No. of Strakes		18.5	18.5-15	14-17.5		double	22	90.6	3	22	100
BILGE PLATING, No. of Strakes		18.5	15.	"							
SIDE PLATING, No. of Strakes		17.5	12.5-13	12.5-17.5				80.6	4		90
UPPER DECK, Sheer-strake in Wells.....	1980	26.	12.5	12.5	appr. 1905-24.5		25	90.6	3	25	115
UPPER DECK, Sheer-strake in Bridge ...											
STRAKE BELOW Sheer-strake in Wells.....	1840	22.5	12.5	12.5		double	25	90.6	3	25	115
STRAKE BELOW Sheer-strake in Bridge ...											
POOP SIDE PLATING				10.5		single	22	90.	double	22	80
OPEN											
BRIDGE SIDE PLATING ...		8.0							single	19	90
FORECASTLE SIDE PLATING			11.0						double	22	80

WATERTIGHT BULKHEADS.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c) 15

 " Deck next below ✓

As per Rule 8

	Plating Thickness.	STIFFENERS.			
		VERTICAL.		HORIZONTAL.	
		Scantlings.	Spacing.	Scantlings.	Spacing.
MIDSHIP BULKH'D, Upper tween decks					
" " Second					
" " Third					
" " Holds	13.5-90	240-95	85-13	810	3 ft. girders
COLLISION	12.-6.5	230-90	11.5	60	3 girders
AFTER PEAK	13-6.5	200-75	10.5	610	3 girders

FORGINGS and CASTINGS.

	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar				Plate plate keel
STEM				Pulled bar 280-70 with rivets
STERN FRAME				
Propeller Post	Casting	See plan	A/B Lindholm	
Rudder			Motala	
RUDDER—A x D				Semi Balanced Rudder
Speed of Vessel		11.5 knots		
RUDDER mainpiece at head ...	Forging	354	A/B Lindholm	
" " heel ...		265	Motala	
" how constructed	Build.			arms strunk & keyed on
" double or single plate				single
" coupling, vertical or horizontal.....				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.

Wilkowitzer Bergbau & Eisenhütten Gesellschaft, Vereinigte Stahlwerke AG, Fried Krupp AG, Societe Anonyme d'Ateliers d'Alais.

Has the Steel been tested as required by the Rules? Yes.

EQUIPMENT No. 49218										LETTER et		ANCHORS.			
Number of Certificate.	Anchor.	WEIGHT, EX. STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
1450	1st Bower ...	Cwts. 83	qrs. 3	lbs. 15	Cwts.	qrs.	lbs.	Tons. 60	cwts. 10	qrs. 0	lbs. 0	Cwts. 81 1/2	Union Stockless	Southwester	Makers Works 1/3/30 K. Hays
1449	2nd " ...	83	2	8				60	10	0	0	81 1/2	"	Union.	"
1448	3rd " ...	83	2	6				60	10	0	0	81 1/2	"	"	"
	Collective weight.	251	0	1								244 1/2			
1451	Stream	25	0	3	6	3	24	24	17	0	21	25	Ordinary Hook	"	"

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.	Stagn.	Break-ing.	Supplied.	Per Rule.		Fathoms.	Ins.					Fathoms.	Ins.	Tons.	Fathoms.	Ins.	
74	3000	2 1/4	18567	165789	55090	50100		3000	2 1/4	Shut link	Mills and Barrington	Makers Works 12/3/29 J. P. Heger	TOWLINE	12 240	6"	85.0	240	6"	
													HAWSERS & WARPS	20 185	2 3/4	15.2	20 185	2 3/4	
													"	40 165	3"	18.6	20 185	2 3/4	
													"						
Iron Stream Chain or Steel Wire	metre	Dir.	For S					metre	Dir.										
	220	5 1/4	65.0					220	5 1/4										

Steering Gear, ~~Steam~~ *Electric Hydraulic by Hastic* Steering Gear, Hand *none*

Boats *2. D 28-8.5-3.5* Steering Chains, Size and Test *no chains* Windlass *Steam, by Helsingborg Harp*

Ceiling in *Hold*, thickness and material *2 1/2" pine* Cargo Battens, thickness, material and spacing *2" pine 9" centres*

Cargo Hatchways.—(Upper Deck) *O. T. hatches.* Thickness of Hatches

Size of No. 1 Hatchway (Forward) No. 2 No. 3 No. 4 No. 5 No. 6

Number of Shifting Beams and/or Fore and Afters

Builder's Signature *Eug. J. Hedlund*

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 *Tanker* The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

The materials and workmanship are good. The vessel has been built in accordance with the approved plans and instructions, the Secretary's orders and in conformity with the Rules for the class contemplated.

The vessel is constructed to carry Petroleum in Bulk, and oil fuel in the double bottom under machinery, in the oil fuel bunkers situated at each side at the forward end of the machinery space, and in the forward deep tank and in the Aft Peak. The flash point of the oil is above 150°F. The port oil fuel bunker is arranged for heavy oil for the Boilers if desired. The boilers are oil fired. The tanks, cofferdams, pumproom bulkheads and decks have been tested in accordance with the requirements of the Rules

The freeboard has been marked on the vessel's sides by the Norske Veritas Surveyor.

The amount of Entry Fee Kr. :200.20 Fees applied for, *AMM*
Special Survey Fee.... Kr. 12092.50 Received by me, *EEL*
Travelling Expenses, if any Kr. : 13.00 16-10-30

I am of opinion the Vessel should be Classed ** 100 A1*,
Carrying Petroleum in Bulk

State whether the Vessel has been built under Special Survey *yes* Signature *E. Hedlund*
H.M. Surveyors to Lloyd's Register of Shipping.

Certificate to be sent to *Göteborg office* Date of issue *21/10/30*

Committee's Minute TUE. 21 OCT 1930

Character assigned *+100A1*
Carryng Petrol. in Bulk
Lloyd's A & C.P.

Oil Eng. 20.18.180.06

Write here *GL* *ML*

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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.)

The vessel is sister vessel to the same builders yard No. 432 ^{M/S} VELMA (Galk. report No. 8030) with the exception that this vessel has no bridge but only a bridge house.

The following plans are now forwarded

Midship Section

Profile and Deck plans

Shell expansion

Sternframe and rudder

Shaft brackets

Propeller —

Aft peak and Engine room.

Fore peak and deep tank

Double bottom and Engine seat.

Fuel oil tank fr. 37-45

Pump room.

Altern. arr. of oil hatches in upper deck

Wash plates in main oil tanks.

Bridge side plating

Rudder tiller (M/S 432 & M/S 437)

Midship Section and Profile and deck as built and forgings and casting reports also forwarded.

The following freeboard have been assigned by the Norske Veritas

F.W. 9'-7"

I.S. 9'-7"

S (cent. of disc.) 10'-2"

W. 10'-8 1/2"

British B. of T. 10'-2"

from statutory deck line at level of the upper deck stringer

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

1st Bower	55. 1. 1. K.H.	10180	7/3/30.
2nd "	54. 2. 21. K.H.	10179	7/3/30.
3rd "	54. 1. 23. K.H.	10178	7/3/30.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 103.0 ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle 39.5 ft. (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 deck steel

Official No. ; Signal Letters L.J.K.B. Is bottom of Vessel coated with cement part if not give particulars of composition F.W. O.B. tank and fore peak cement.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	SALT Water Capacity. Tons.	Where Fitted.	*Length. Feet.	SALT Water Capacity. Tons.
Double bottom, aft,			Fore peak tank, WB	25.0	196
Double bottom, under Engines and Boilers,			After peak tank, OF = 273 - 01 WB	30.0	310
Double bottom, if under Engines only, FW 101; L.O. 27; OF 150	70.5	304	Deep tank aft, OF = 541	21.6	615
Double bottom, if under Boilers only,			Deep tank, forward, OF = 549	33.0	622
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 dbd bottom 70.5 feet

Order for Special Survey No. 169

Date 23/4/29

Dates of Surveys held while building

1929. Dec. 21. 1930. Jan. 8. 15. 15. 20. 20. 28. Feb. 1. 5. 11. 13. 14. 17. 21. 24. March 4. 12. 13. 17. 17. 21. 25. 31. 31. April 3. 7. 11. 23. 23. 20. May 2. 2. 9. 14. 22. 27. 30. June 2. 4. 6. 9. 12. 18. 18. July 1. 3. 3. 7. 8. 11. 18. 18. 21. 22. 22. 26. 26. 27. Aug. 4. 12. 13. 15. 15. 16. 17. 17. 20. 21. 21. 22. 22. 23. 23. 25. 25. 25. 26. 27. 27. 27. 28. 28. 27. 27. 30. Sept. 1. 2. 11. 12. 15. 27. Oct. 8.

Total No. of Visits 92