

With or Without

STEEL STEAMER

DIESEL VESSEL

Disconnected Erections.

State of Report is also sent on the Machinery of the Vessel

Received at London Office

30 DEC 1918

Date of completion of report

10<sup>th</sup> December 1918

Port of

Stockholm

No.

1796

Survey held at

Stockholm

Date, First Survey

31 July 1917

Last Survey

9 December 1918

On the (State of Single, Twin, or Triple Screw)

Twin Screw Diesel vessel Svaland, Building No. 582

Rig Schooner

TONNAGE under

853.39

CLASS 90 A1.

FEET.

Master

G. O. Berggren

Do. between Tonnage Dk.

853.39

Breadth (greatest moulded)

33.8

Year of appointment

1918

per Dk.

55.10

Depth, at middle of length from top of keel to top of upper deck beams at side

15.9

Built at

Stockholm

not in- (301.87)

11.36

Transverse Number

49.7

When built

1916-1917

Launched 19 Dec. 1916.

ways

92.10

Length on deck from fore part of stem to after part of stern post

219.8

By whom built

Södra Varvet's Aktiebolag

ways

15.71

Longitudinal Number

10924

Owners

San Broström

ways

58.13

Depth "d," at middle of length (See Secs. 2 & 13)

13.1

Managers

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

ways

1085.80

Proportions—Depths to Length—Upper Deck Beam at side to top of keel

13.8

Residence

Port belonging to

Göteborg, Sweden.

ways

97.30

Long Bridge Deck Beam at side to top of keel

9.5

ways

58.13

Destined Voyage

laid up

If Surveyed while Building, Afloat, or in Dry Dock

ways

930.36

Departing to

Göteborg, 10<sup>th</sup> December 1918

ways

456.13

per Register, Length

220.6

breadth

34.1

depth

13.6

ways

50.45

FRAMING.

in Ship

in Ship

in Ship

in Ship

in Ship

in Ship

in Ship

in Ship

ways

481.92

BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel

130

65

8

130

65

8

ways

600

Angles (top and bottom)

60

60

other 7.5

60

60

other 7.5

ways

770

to Floors

75

75

9

75

75

9

ways

600

at intermdt. frmg., width & thkns

2

other 7.5

2

other 7.5

2

other 7.5

ways

600

state if flanged (top and bottom)

60

60

other 7.5

60

60

other 7.5

ways

770

Angles (top and bottom)

75

75

9

75

75

9

ways

600

to Floors

60

60

other 7.5

60

60

other 7.5

ways

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60

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other 7.5

ways

600

at intermdt. frmg., width & thkns

2

other 7.5

2

other 7.5

2

other 7.5

ways

600

state if flanged (top and bottom)

60

60

other 7.5

60

60

other 7.5

ways

770

Angles (top and bottom)

75

75

9

75

75

9



WEB FRAMES.										FORGINGS or CASTINGS.									
In. in Ship.					In. in Ship.					In. in Ship.					In. in Ship.				
WEB FRAMES, In Fore Body, No. and spacing										KEEL, Bar, depth and thickness									
No. of Side Stringers										STEM, moulding and thickness									
WEB FRAMES, In E. & B. Space, No. and spacing										STERN-POST for Rudder do. do.									
brdth. & thickness										" for Propeller (Twin screw)									
WEB FRAMES, In After Body, No. and spacing										RUDDER-A x D Table 22. Speed 3.5 knots									
brdth. & thickness										Main-Plate, diameter at head									
No. of Side Stringers										" " " at heel									
Size of Face Angles to Web-Frames										RUDDER, how constructed Single Plate. Main piece with four arms - east.									
BRACKET PLATES to Stringers between										Thickness of Plates or Single Plate									
Web Frames, depth and thickness										Can the Rudder be unshipped afloat?									
BULKHEADS.										Manufacturer's name or trade mark of the Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer									
Vessel. No. 3										Plates, Plating, &c. ? Frames, beam and angles, 5 M.St., Gelsenkirchen Berg W. & G.									
W.T. BULKHEADS										Stem, still forming, Björnsborg Steelworks, Sweden, 5 M.St. and middle frame, steel castings, Björnsborg Steelworks, Sweden, Plating, Gelsenkirchen Berg W. & G.									
" COLLISION "										A. Bes. & Avela Steelworks, Sweden.									
PARTITION "										Has the Steel been tested as required by the Rules? by S.E. Surveyor to a minimum tensile strength of 46 tons.									
LONGITUDINAL "										Are the outside Plates doubled two spaces of Frames in length? Yes									
Are the Sluice Valves and Watertight Doors in efficient working order? Sluice valves fitted										Are the Sluice Valves and Watertight Doors in efficient working order? Watertight doors good.									
PLATING.										RIVETING.									
STRAKES.										BUTTS.									
AS IN SHIP.										EDGES.									
Breadth. Thickness.										Breadth. Thickness.									
FLAT PLATE KEEL										Double or Treble and for what Length.									
GARBOARD or A Strake										RIVETS.									
B "										Spacing or to cr.									
C "										Breadth.									
D "										Thickness.									
E "										If LAPPED.									
F "										For what Length.									
G "										BUTTS.									
H "										Spacing or to cr.									
I "										Breadth.									
J "										Thickness.									
K "										If LAPPED.									
L "										For what Length.									
M "										BUTTS.									
N "										Spacing or to cr.									
O "										Breadth.									
P "										Thickness.									
Q "										If LAPPED.									
R "										For what Length.									
S "										BUTTS.									
T "										Spacing or to cr.									
U "										Breadth.									
V "										Thickness.									
W "										If LAPPED.									
For what Length.										BUTTS.									
THICKNESS OF SHEET PILE										Spacing or to cr.									
CLEAR OF LONG BRIDGE										Breadth.									
DO. OF STRAKE BELOW										Thickness.									
DELT. of Flat Plate Keel										If LAPPED.									
Sheerstrakes										For what Length.									
Length and thickness.										BUTTS.									
POOP SIDES										Spacing or to cr.									
SHORT BRIDGE SIDES										Breadth.									
FORECASTLE SIDES										Thickness.									
Where a long bridge is fitted the thickness of Upper Deck Sheerstrake and Strake below should also be stated clear of same.										BUTTS.									
Upper Deck										Spacing or to cr.									
Stringer Plate										Breadth.									
Butts, double riveted for										Thickness.									
Straps, single, double or overlapped for										If LAPPED.									
Second Deck										For what Length.									
Stringer Plate										BUTTS.									
Butts, riveted for										Spacing or to cr.									
Straps, single or overlapped for										Breadth.									
FRAMES extend in one length from										Thickness.									
REVERSED FRAMES on floors and frames extend from										If LAPPED.									
State if ordinary or joggled										For what Length.									
State if ordinary or joggled										BUTTS.									
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State if ordinary or joggled										If LAPPED.									
State if ordinary or joggled										For what Length.									



GENERAL REMARKS—(continued).

in good condition. Some small indentations were then observed in the plating on port side of the bow, in plate no. 3 in C-stroke and in plate no. 2 in D-stroke, but this damage does not in my opinion affect vessel's Class, and the repair of it may be allowed, as proposed by Owner's Superintendent, to be carried out at Owner's convenience.

The diameters of the <sup>two</sup> propeller shafts and of the tunnel shafts were checked and found to agree with the plans, when the vessel was in dry dock in June this year, and, as the propeller shafts were found efficiently protected by Cedarwood glands, they were, by request of the Owner's Representative, not drawn in for inspection.

The bottom tanks <sup>with their cement</sup> were ~~stated~~ by Mr. Brodin to have been examined inside and tested by him to the height of the load line and the peak tanks with 8 feet water pressure and all found tight.

It would thus appear, that the requirements of Section 48 of the Rules for the Survey of vessels, not built under Survey, have been complied with, except para. 4, so far as regards the pumping arrangements and the inspection of the principal parts of the machinery, which have not as yet been opened out.

The requirements in this respect, embodied in Secretary's letter D, dated 20<sup>th</sup> Sept. 1917, have been communicated by me to the Owner's Superintendent, Mr. S. Björkström, and I understand, that arrangements have been made for complying with these conditions for Class at vessel's arrival at her home port, Gothenburg, in a few days. The Society's Surveyors at Gothenburg have also been communicated to on this subject.

As the scantlings have been found to agree with the plans, submitted with my letter of the 25<sup>th</sup> Aug. 1917, I have respectfully to submit, that this vessel merits to be classed **90 A 1**, subject to the pumping arrangements being amended and the machinery further examined, as prescribed in Secretary's letter D, dated 20<sup>th</sup> Sept. 1917, of which copies have been forwarded to the Owner and to the Gothenburg Surveyors.

A. GAKSON

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop **22** ft., R.Q.D. — ft., Bridge **127** ft., Forecastle **21.5** ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

No. and Material of Decks (if Iron or Steel) and whether wholly or partially covered with wood, and No. of tiers of Beams (this information is to be given as should appear in the Register Book) **1 Dk (Stl)**  
Official No. **5900**; Signal Letters **K.B.C.S.** State if Machinery is fitted aft **No**  
How are the surfaces preserved from oxidation? Inside **Cement and composition paint** Outside **composition paint**

PARTICULARS OF WATER BALLAST.—State whether the Double bottom is constructed on the cellular system or with girders on floors. **Cell. DB**

Where Fitted.	*Length. Feet.	Water Capacity. M&T. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. M&T. Tons.
Double bottom, aft, (IV & V)	<b>65.0</b>	<b>95.6 dm.</b>	Fore peak tank,	<b>19.1</b>	<b>39.0</b>
Double bottom, under Engines and Boilers, (III)	<b>29.5</b>	<b>71.3 "</b>	After peak tank,	<b>17.7</b>	<b>78.0</b>
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward, and under double boiler (I & II)	<b>78.7</b>	<b>131.1 "</b>	Other tanks, if fitted,		
Total capacity of double bottom = <b>298.0 dm.</b>			(If necessary, furnish further information by sketch.)		
* The wells are not to be included in the lengths of the tanks.			State whether the above have been tested as required by the Rules. <b>Yes, by Mr. O.</b>		
<b>173</b> = $\frac{26}{55} \times 293.3 = 301.7$ tons seawater = <b>~ 302 tons.</b>					

Order for Special Survey No **21**  
Date **30 July 1917**  
No. **582** in builder's yard  
Dates of Surveys held while building  
**31 July, 1. 2. 3. 16. 23 & 25 August, 20 Oct. 10 & 22 Dec. 1917**  
**5 Jan. 13. 14 & 15 June, 9. 10 & 11 Dec. 1918**

Surveyor's Signature **A. GAKSON**, assisted by Mr. L. L. M. **Lloy's Register Foundation**