

STEEL STEAMER or MOTORSHIP.

Received at London Office. 3 APR 1934

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 *31st March 1934* Port of *Gothenburg* No. *9708*
Survey held at *Gothenburg* Date First Survey *5th Dec. 1931* Last Survey *27th March 1934*On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) *Twin Screw Motor Ship "SENATOR" Machinery aft.*
State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) *Full Scantling Carrying Petroleum in Bulk* State Type of Erections *File and Rigg*TONNAGE under Tonnage Deck... *5971.01* CLASS ** 100, A.I.* State if with freeboard as condition of Class *No* Built at *Gothenburg*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 407'-0"* Launched *25th Febr. 1933* Yard No. *461*Total Breadth (greatest moulded) *B 55'-0"* Builders *A.B. Götaverken*Gross Tonnage *6588.55* Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) *D 33'-7"* Owners *Stavanger Tankrederi A/S*Register Tonnage *4001.75* 1st Longitudinal Number (L x D) *(1269 x 1566.8) = 1566.8* Managers *Thorleif Orre*
(Where necessary to be entered in Reg. Book.)REGISTERED DIMENSIONS. FEET. Framing Depth "d," at middle of length. See Sec. 3 (1d) *12.12* ✓ Residence *Stavanger*Length *408.5* Proportions—Depth to Length—Uppermost continuous deck to top of keel *12.12* ✓ Port of Registry *Stavanger*Breadth *55.2* Do. Long Bridge to top of keel *26'-3 7/8"* If surveyed while building, afloat, or in dry dockDepth *33.9* Draught Moulded *26'-3 7/8"* Building afloat and on floating dock.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	M.M. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	M.M. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	750 ✓		Bracket Floors, Frame	✓
" " from $\frac{3}{8}$ length to Collision bulkhead.....	635		" " Reversed Frame	✓
" " in peaks.....	605 ✓		" " Vertical Struts	✓
SIDE FRAMING.			Centre Girder, depth and thickness amidships <i>2000 x 11.0</i> ✓	
Frame Amidships, Angle, E or C	200 90 12.5 ✓		" " top Angles DBL..... <i>90 x 90 x 12</i> ✓	
" " Extends up to	Upper deck ✓		" " bottom Angles DBL..... <i>100 x 100 x 13.5</i> ✓	
Reversed Frame Amidships, Angle	250 90 12.5 ✓		Side Girders, No. each side and thickness	<i>2 @ 15.0</i>
" " Extends up to	Longest Bds. ✓		Margin Plate depth (excl. of flange) and thickness	<i>12.5</i> ✓
Depth of Framing Girder	200 x 250 ✓		" " Vertical Angle to Tank side Bracket abaft $\frac{1}{4}$ len. from stem	✓
Frames in Uppermost Continuous 'tween Decks, Angle, C or E	✓		" " Vertical Angle to Tank side Bracket forward $\frac{1}{4}$ len. from stem	✓
" " Second 'tween Decks, Angle, C or E	✓		" " Gussets, spacing and scantling abaft $\frac{1}{4}$ len. from stem.....	✓
" " Third " " " "	✓		" " Gussets, spacing and scantling forward $\frac{1}{4}$ len. from stem.....	✓
Framing in Peaks, Angle or C	200 90 10.5 ✓		Tank Side Brackets, height above base line at toe of Frame and thickness	<i>See plan</i>
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	22 @ 13.5 25 @ 150. ✓		INNER BOTTOM PLATING, IN MOTOR ROOM.	
State if Frame Joggled	Bottom frame ✓		Breadth and thickness of Middle Line Strake ...	<i>2980 x 12.5</i> ✓
PANTING ARRANGEMENTS (Sec. 7), state system and particulars)	<i>Deep framing and stringers as per appd. plan.</i>		Thickness of remainder in Holds	<i>12.5</i> ✓
STRENGTHENING OF BOTTOM FORWARD. State Particulars	<i>90 x 90 x 10.5 bulk bar in N.51 hold and fore. deep tank. Extra girders and inward shell.</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 <i>180 x 90 x 10.0 centre</i> ✓	
Height of Brackets at side above base line at toe of frame	✓		" " in way of Bridge, Angle, C or E	<i>180 x 90 x 9.5 side</i> ✓
Middle Line Keelson, on Floors, Angles, E or C			Spacing	<i>750</i> ✓
" " Through Plate on Intercoastal Plate	<i>1600 x 12.5</i> ✓		Second Deck, amidships, Angle, C or E	✓
" " TOP BULB ANGLES SINGLE Foundation Plate on Floors	<i>230 x 90 x 12.5 db.</i> ✓		Spacing	✓
" " Flat Plate Keel Angles	<i>150 x 150 x 12.5</i> ✓		Third Deck, amidships, Angle, C or E	✓
Side Keelsons, No. each side	<i>One in centre tanks</i> ✓		Spacing	✓
DEPTH & THROUGH			Fourth Deck, amidships, Angle, C or E	✓
" " Thickness of Intercoastal Plate... <i>1600 x 12.5</i> ✓			Spacing	✓
" " TOP BULB ANGLES SINGLE <i>320 x 100 x 16.0</i> ✓			Poop Deck, Angle, E or C	<i>200 x 75 x 9.0</i> ✓
" " Angles <i>150 x 150 x 12.5</i> ✓			Spacing	<i>180 x 75 x 9.0</i> ✓
DOUBLE BOTTOM. IN MOTOR ROOM.			Spacing	<i>750 x 605</i> ✓
Solid Floors, thickness and spacing	<i>10.0 @ 750</i>		Bridge Deck, Angle, E or C	<i>150 x 75 x 10.0</i> ✓
" " Are Frame and Reversed Frame joggled?	<i>Frames only</i> ✓		Spacing	<i>1020</i> ✓
Bracket Floors, breadth and thickness at middle line	✓		Forecastle Deck, Angle, E or C	<i>200 x 75 x 9.0</i> ✓
" " breadth and thickness at margin plate	✓		Spacing	<i>180 x 75 x 9.0</i> ✓

PILLARS AND DECKS.

	M.M. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.	M.M. INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS , No. of Rows.....	✓		BEAMS IN WAY OF HOR. GIRDERS	
" in 'tween Decks, Size and Spacing.....	✓		Stringer Plate, breadth and thickness in way of Bridge	200 x 90 x 10 L ✓
" " " " ".....	✓		Thickness of Plating abreast Deck openings in way of Wells.....	✓
" in Holds " ".....	✓		Thickness of Plating abreast Deck openings in way of Bridge.....	✓
2 LONGITUDINALS	✓		Thickness of Plating within line of openings...	✓
Centre Line Bulkhead.s			If Sheathed, material and thickness	✓
Stiffeners and Spacing..... CHANNELS.....	200 x 90 x 75 x 11.5 x 750 ✓		Third Deck.	
Plating, thickness of	12.5 10.5 10.0 14.5 ✓		Stringer Plate, breadth and thickness.....	✓
STRINGERS AND DECKS.			If Plated, state thickness.....	✓
Uppermost Continuous Deck.			Fourth Deck.	
Stringer Plate, breadth and thickness in Wells	1600 x 17.5 ✓		Stringer Plate, breadth and thickness.....	✓
" " " " in way of Bridge	— — — —		If Plated, state thickness	✓
" Angle in Wells	150 x 150 x 17.5 ✓		Poop Deck.	
Thickness of Plating abreast Deck openings)	16.5 ✓		Stringer Plate, breadth and thickness	9.0 ✓
in way of Wells			Plating, Sheathing, material and thickness ...	6.5 OR 2 1/2" ✓
Thickness of Plating abreast Deck openings)	✓		Bridge Deck. (OPEN SIDES & ENDS)	
in way of Bridge			Stringer Plate, breadth and thickness.....	1030 x 6.5
Thickness of Plating within line of openings...	12.0 ✓		Plating, Sheathing, material and thickness ...	6.5
If Sheathed, material and thickness	✓		Forecastle Deck.	
HORIZONTAL GIRDERS IN WING TRACKS			Stringer Plate, breadth and thickness.....	9.0 ✓
Second Deck.			Plating, Sheathing, material and thickness ...	9.0 ✓
Stringer Plate, breadth and thickness in Wells...	850 x 10.0 ✓			

SHELL PLATING.

SCANTLINGS.					RIVETING.							
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. <i>Sides only.</i> State if jogged?			BUTTS.			
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		NO. OF ROWS OF RIVETS.	RIVETS.		STRAIPPED OR LAPPED.
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.	
	<small>inches. MM.</small>	<small>inches. MM.</small>	<small>inches. MM.</small>	<small>inches. MM.</small>			<small>inches. MM.</small>	<small>inches. MM.</small>		<small>inches. MM.</small>	<small>inches. MM.</small>	
FLAT PLATE KEEL	1680	22	18	18	✓	Double	22	8 1/25	3 rows	25	100	Lapped
„ DELG. (if any)												
BOTTOM PLATING, No. } of Strakes		16	16-12.5	12.5-16	✓	— “ —	22	8 1/25	4 rows	22	90	Lapped
BILGE PLATING, No. of } Strakes		16	16-12.5	15-16	✓	— “ —	— “ —	— “ —	— “ —	— “ —	— “ —	— “ —
SIDE PLATING, No. of } Strakes		14.5	11.5	12.5-14.5	✓	— “ —	— “ —	— “ —	— “ —	— “ —	— “ —	— “ —
UPPER DECK, Sheer- } strake in Wells	2100	20	11.5	12.5	✓	— “ —	— “ —	— “ —	— “ —	25	100	— “ —
UPPER DECK, Sheer- } strake in Bridge ...						— “ —	— “ —	— “ —	— “ —			— “ —
STRAKE BELOW Sheer- } strake in Wells	2400	18	11.5	12.5	✓	— “ —	— “ —	— “ —	— “ —	22	90	— “ —
STRAKE BELOW Sheer- } strake in Bridge ...												
POOP SIDE PLATING				9.5	✓	Single	22	90	2 rows	22	80	— “ —
BRIDGE SIDE PLATING ...												
FOREOTLE SIDE PLATING				10.5	✓	— “ —	— “ —	— “ —	— “ —	— “ —	— “ —	— “ —

WATERTIGHT BULKHEADS.

FORGINGS and CASTINGS,

Total No. of W.T. BULKHEADS in Vessel—		Extending to Upper Deck (Sec. 3 c)		Deck next below		As per Rule	
		14		10			
		STIFFENERS.					
Plating Thickness.		VERTICAL.		HORIZONTAL.			
		Scantlings.	Spacing.	Scantlings.	Spacing.		
MIDSHIP BULKHD. Upper tween decks							
"	" Second "						
"	" Third "						
"	" Holds	17.5-8.5	200x90x75x11.5	2 7/16x13	long girders.		
COLLISION		(in Hold)	11.5-6.5/16.5x75x100	2 1/16	3 deck 12 long girders		
AFTER PEAK		UPPER PART	8.0-7.5/180x75x90	2	11 long girder		
		LOWER	10.0-8.0/220x90x11.5	2			

		Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
KEEL, Bar			Plate plate keel		
STEM			Roller bar		
STERN FRAME		Propeller Post	See casting plan	A/B Lindholm	
		Rudder	"	Notula.	
RUDDER—A x D			Semi Balanced Rudder		
Speed of Vessel					
RUDDER mainpiece at head		Forging	285	Withkaiser	
				Borgesen & Eisenh. A/S	
		heel	210		
		how constructed	Built, arms shrouded & 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*

Vereinigte Stahlwerke, Witkowitzer Bergbau- und Hüttenwerke, Torzetz-Porzellan-
-d'-Stein-Abth.

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

EQUIPMENT No 37165 ✓										LETTER "Z" ✓		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.	Cwts.			
34175	1st Bower ...	61	0	14	✓			49	0	2	14	✓	Hall's Stockless	—	LDH. S. 14/10 1932 J.H. Butler
34197	2nd " ...	63	2	0	✓			50	5	0	0	✓	" "	—	" " 21/11 1932 — " —
371	3rd " ...	62	2	21	✓			49	17	2	0	✓	" "	Ward's Works, Pelton	Ward's Works 13/1 1933 H. Kallbow
	Collective weight.											182			
366	Stream	18	0	12	4	3	4	19 ³ / ₂₀					Admiralty	— " —	— " — 5/2 1932 P. Kerkner

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.	Statutory.	Breaking.	Supplied.		Per Rule.	Length.	Diam.					Length.	Cir.	Tons.	Fathoms.	Ins.	Fathoms.	Ins.	
					Cwts.	qrs. lbs.															Cwts.
	Fathoms.	Ins.	Tons.	Tons.	Cwts.	qrs.	lbs.	Cwts.	Fathoms.	Ins.				Fathoms.	Ins.	Tons.	Fathoms.	Ins.			
896 B	180	2 1/2	91 1/2	127 1/2	475	3	15	✓			Had Link, Hanson & Co. Ltd.	Makers Mark, No. 512, 3rd Quarter	TOWLINE...	120	4 1/2	58.6	120	5			
960 B	15	"	"	"	39	3	23				"	No 32 1/2 R. Schmitt									
968	16	"	"	"	43	0	12				"	"									
17711	15	"	"	"	39	2	14					LDH. S. 4/3 33 J.H. Butler	HAWSERS & WARPS }	22	90	2 3/4	14.0	22	90	2 3/4	
17712	15	"	"	"	39	3	21	✓			"	4/3 33 "									
17472	15 1/2	"	"	"	39	2	14				"	2 1/2 32 "			42	90	2 1/2	13.2	22	90	2 1/2
17476	15 1/2	"	"	"	39	2	21				"	4/2 32 "									
	27 1/2	Cir.								Cir.					42	90	8 "	Manilla			
Stream Chain Steel Wire	90	4 1/2	58.6						90	4 3/4											

Steering Gear, Steam 9" x 8 1/2" by Donkin & Co. Ltd. Newcastle Steering Gear, Hand by Donkin & Co. Ltd. and Black and White from Miller to winch on prop.

Boats 4 @ 210 cub. feet. Steering Chains, Size and Test None Windlass Steam 9 1/2" x 12" by Black Chapman

FORWARD

Ceiling in Hold, thickness and material 2 1/2" pine Cargo Battens, thickness, material and spacing None

Cargo Hatchways.—(Upper Deck) O. T. Med. 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 ✓

AKTIEBOLAGET GÖTAVERKEN

Builder's Signature

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 Surveyor's letters 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 forward deep tank and in the after peak tank. The flash point of the oil fuel is above 150°F.

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 and verified.

Freeboard, Wt 390 — ✓ Fees applied for, 31/3 1934 ✓

The amount of Entry Fee \$ 182 : ✓

Special Survey Fee \$ 9958.49 ✓

Travelling Expenses, if any \$: 6 : ✓

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

State whether the Vessel has been built under Special Survey Yes

Signature V. Paulow G. Heringqvist

Surveyor to Lloyd's Register of Shipping.

Certificate to be sent to Gottenburg. Date of issue 10/4/34

Committee's Minute

Character assigned

TUE. 10 APR 1934

+ 100 A 1

Carrying petroleum in bulk

Lloyd's assoc.

+ Limb. 3.34

200. - 150 A

CL. oil oil

elec. oil



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Lloyd's Register Foundation

The Surveyor is requested not to write on or before the Committee's Minute.

428220-845500-956500

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 following plans are now forwarded:—

Midship Section
Profile and Deck plans
Shell expansion.
After peak and Engine Room.
Hornframe and Rudder
Shaft Brackets
Boss Casting.
Arrangement at break of Poop.
Fore peak and Deep tank
Double bottom and Engine Seat.

Also Midship Section & Profile and Decks as built and forging and casting report.

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

1st Bower	1900 lbs.	MAB.	4732	29/4 1930
2nd "	1900 "	"	4763	8/8 1930
	HEAD. 40 0 13.	HK	815	4/ 1933
3rd "	SHANK. 18 0 25	HK	816	4/ 1933.

Drop Test for Hook anchor
16.3.9. P.K. 808 15/1 1932.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 90.33 ft., R.Q.D. ☐ ft., Bridge ☐ ft., Forecastle 41.75 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.D.B.V. Is bottom of Vessel coated with cement part if not give particulars of composition Cement in F.W. double bottom tank fore and after peak tanks and engine room db bottom cofferdams.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	Length. Feet.	Water Capacity. Tons.	Where Fitted.	Length. Feet.	Water Capacity. Tons.
Double bottom, aft,			Fore peak tank,		
Double bottom, under Engines and Boilers,	90.4	200.0	After peak tank,	27.8	415.0
Double bottom, if under Engines only,			Deep tank, aft,	23.0	243.0
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,			Other tanks, if fitted,		
		Total capacity of double bottom 200.0	(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. 190

Date 8.9.30

Dates of Surveys held while building

1931 Dec. 5.8.10.12. 15.17.23.28.29 1932:— Jan. 4.7.8.11.13. 15.18.21.22.25.28.30.
Feb. 4.8.9.12. 16.17.19.22.23.24.29 March 3.11.15.18.21.30 April. 1.10.11.15.25 May 4.7.9
16.25.27.30 July 4.18. Aug. 3.10.29.30 Sept. 9.20.22 Oct. 3.8.12. Nov. 16.26.30 Dec. 1.5.8.15.16.31
1933:— Jan. 2.5.10.12. 13.17.23.31 Feb. 14.29 10.14.17.25.28 March 13.18 April. 4 June 14
July 19. Sept. 5.6 Oct. 3. No. 1. 1934:— Feb. 22.23 March 5.7.8.9.22.23.26.27
Total No. of Visits 107