

Awning or Shelter Deck, or Pt. Awning Deck.

STEEL STEAMER.

No. 4764.

State if Report is also sent on the Machinery of the Vessel *yes*

Port of **GOTHENBURG** Date of completion of Report **4th APR. 1921** Received at London Office **TUE 12 APR. 1921**
Survey held at **GOTHENBURG** Date, First Survey **27th Aug. 1919** Last Survey **30th April 1921**
On the (State if Single, Twin, or Triple Screw) **SINGLE SCREW STEAMER "KIRUNA"** Rig **Schooner**

TONNAGE under Tonnage Deck... **5119.50**
Do. between Tonnage Dk. and 3rd, 4th, or Awning Dk. **283.04**
Total under Upper Dk. **5402.54**
Do. of Poop **22.05**
Do. of R. Dk. **48.47**
Do. of Bridge House **22.05**
Do. of Forecastle **48.47**
Do. of Houses on Deck **22.05**
Do. of excess of Hatchways **48.47**
Do. above Crown of Engine Room **22.05**
Gross Tonnage **5473.64**
New Space **277.30**
One Crown of one Room **5474**
BE FOR FEES... **5474**
Engine Room **1751.56**
Navigation Spaces **638.94**

CLASS + 100 A.I. *shelter deck with putred*
Breadth (greatest moulded) **53.42**
Depth, at middle of length from top of keel to top of beams of side of uppermost Continuous Deck **34.06**
Deduct height of 'tween deck when this does not exceed 8ft. **8.0**
Transverse Number **79.48**
Length on deck from fore part of stem to after part of sternpost **385.0**
Longitudinal Number **30600**
Depth "d" at middle of length. See Secs. 2 & 13... **22.23**
Proportions, Depths to Length, Uppermost Continuous Deck at side to top of keel **11.3**
" " " Upper Deck at side to top of keel **✓**

Master **C.A.W. BOQUIST**
Year of Appointment (1) As Master in service of owner of present vessel: 1912 (2) As Master of this vessel: 1921
Built at **GOTHENBURG**
When built 1921-3 **Launched** 18-12-20
By whom built **AKTIEB. GÖTAVERKEN**
Owners **TRAFIKAKTIEB. GRÄNGBERG - OXELOVND**
Manager **G. DILLNER**
(Where necessary to be entered in Reg. Book.)
Residence **STOCKHOLM**
Port belonging to **STOCKHOLM**

Tonnage **2805.84** **Destined Voyage** **NARVIK** **If Surveyed while Building, Afloat, or in Dry Dock** **BUILDING, AFLOAT, or DRY DOCK.**

TH on **Ft.** **Ins.** **BREADTH** **Ft.** **Ins.** **DEPTH, ACTUAL** **Ft.** **Ins.** **No. of Decks with flat laid** **2**
er Rule **385** **0** **Moulded** **53** **5** **Do.** **30** **22** **No. of Tiers of Beams** **2**
ns of Ship per Register, **30.83** **Shelter Dk.** **Moulded depth, ft.** **34** **ins.** **0 3/4** **To Awning or Shelter Dk.** **Round up of Uppermost Dk. Beam, Actual** **13** **ins.**
Length **394.42** **breadth** **53.23** **depth.** **22.83** **Upper Deck.** **Moulded depth, ft.** **26** **ins.** **0 3/4** **To Upper Dk.**

FRAMING.						PILLARS.					
Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.	Inches in Ship.
Angles, or E or L Bars, amidships	280	90	14.5	280	90	14.5	PILLARS, In 'tween Deck, size and spacing				
Peaks	180	85	11	180	85	11	" " Hold				
Way of Double Bottoms at Solid Floors	90	90	10	90	90	10	" " Quarter, 'tween Dks., " "				
at intermdt. Bkts.							" " in Hold				
of Frames from centre to centre amidships	650			650			KEELSONS AND STRINGERS.				
length to collision bulkhead	650			650			CENTRE LINE KEELSON, Vertical Plate above floors, Through Plate, or Intercoastal Plate				
of Frames from centre to centre in peaks	610			610			" Rider Plate				
SED FRAME, Angles							" Flat Keel Plate Angles				
Way of Double bottoms at Solid Floors	90	90	10	90	90	10	" Horizontal Plates on Floors				
at intermdt. Bkts.							" Angles or Bulb Angles				
NG, depth of girder	280	180		280	180		SIDE KEELSONS, Number				
S, depth and thickness of Floor Plate at mid-line for 1/2 length amidships							" Angles or Bulb Angles				
Way of Engine and Boiler spaces							" Plate above floors, for length				
thickness at the ends of vessel							" Intercoastal Plate, for length				
Depth at 1/2 the half-bdth. as per Rule							" Attached to outside plating with Angle				
Height extended at the Bilges							BILGE KEELSON, Angles				
S, in Cell Double Bottoms	10-9	8.5	12.5	10-9	8.5	12.5	" Intercoastal Plate, for length				
state if flanged (top and bottom)	No						" Attached to outside plating with Angle				
spacing of Solid	EVERY FRAME			EVERY FRAME			SIDE STRINGERS, Number				
GIRDER, in Dbl. bottom, dpth. & thickness	1170	12.5-10	15	1066	12.5-10	15	" " Angle				
" Angles, Top	90	90	13	90	90	13	" " Intercoastal Plate, for FULL lng.				
" " Bottom	120	120	14.5	120	120	14.5	" Attached to outside plating with Angle				
" " to Floors	130	130	14	130	130	14	Awning or Shelter Deck Stringer Plates, breadth and thickness				
Brackets at intermdt. frmg. width & thickness							" Angle on ditto				
ORDERS, number and thickness	2	9.5	12.5	2	9.5	12.5	" Tie Plates, fore and aft, outside Hatchways				
state if flanged (top & bottom)	No						" Deck, * Iron or Steel, for FULL lng.				
Angles	90	90	10	90	90	10	" Wood Deck, Material & thickness				
PLATE, depth (exclusive of flange) and thickness	1000	12	14.5	1000	12	14.5	Upper Deck Stringer Plate, breadth and thickness				
Angles to outside plating	90	90	12	90	90	12	" Angles on ditto, No. 2				
" to floors	90	90	10	90	90	10	" Tie Plates, outside Hatchways				
Brackets at intermdt. frmg. width & thickness							" Deck, * Iron or Steel, for FULL lng.				
Height of Brackets above at bilge	710			710			" Wood Deck, Material & thickness				
BOTTOM PLATING, breadth and thickness of Middle Line Strake	1250	12.5	10	1070	12.5	10	Second Deck Stringer Plates, br'dth & thickn's				
" thickness in Engine and Boiler space	13.8	14		13.8	14		" Angles on ditto, No.				
" Remainder in Holds	11-10	12	14	10-8.5	12	14	" Tie Plates, outside Hatchways				
Awning or Shltr Dk. Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	230	90	11.5	220	85	13	" Deck, * Material and thickness				
ing	180	75	10.5	150	70	10.5	Third, Fourth & Fifth Deck Stringer Plate, breadth and thickness				
ing	EVERY FRAME			EVERY FRAME			" Angles on ditto, No.				
Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel	250	90	12	230	90	13	" Tie Plates, outside Hatchways				
ing	180	75	10.5	170	75	10.5	" Deck, Material and thickness				
ing	EVERY FRAME			EVERY FRAME			Poop Deck Stringer Plate, breadth & thickness				
Second, Third & Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb or Channel							" Angles on ditto				
les on upper edge							" Tie Plates				
spacing							" Deck, Material and thickness				
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel							Bridge Deck Stringer Plate, br'dth & thickness				
" Angles on upper edge							" Angle on ditto				
" Spacing							" Tie Plates				
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel							" Deck, Material and thickness				
" Angles on upper edge							Forecastle Deck Stringer Plate, br'dth & th'kns				
" Spacing							" Angle on ditto				
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb or Channel							" Tie Plates				
" Angles on upper edge							" Deck, Material and thickness				
" Spacing											

[illegible]

EQUIPMENT No. 33267 LETTER Y										ANCHORS.									
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE.				WEIGHT REQ. BY TABLE 31.				Description of Anchor.	Makers.	Where and when tested and Superintendent.	
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.					
25826	1st Bower ..	57	0	21	-	-	-	46	15	2	14	56	3	10	Bays stockless		dund. 12-8-20 L. Haffner		
25877	2nd " ..	57	0	0	-	-	-	46	12	2	0	56	3	9	" "		" 23-8-20 "		
1293	3rd " ..	77	3	8	-	-	-					56	3	9	stockless	A.B. BOFORS-GULLSÅNG	BOFORS 7-10-19 S. HAGLÖV (Surveyor to Bureau Veritas)		
	Collective weight	192	0	1								170	2	0					
34946	Stream	17	3	6	4	2	0	18	6	1	0				Ordinary stock		C.H. 17-8-20. S.C.P.		
34929	Kedge	7	0	20	1	3	14	9	7	0	21	16	1	0	" "		C.H. 17-8-20. S.C.P.		
Particulars of Drop Test of Cast Steel Anchors, viz.:— Weight, Surveyor's Initials, Number of Certificate, Date of Test.																			
		1st Bower Need. 30.5 CWTs C.E.W. A/2223 14-7-20																	
		2nd " " 30.125 " C.E.W. A/2163 30-6-20																	
		3rd " " ✓																	
CHAIN CABLES.																			
Number of Certificate.	Length and Size supplied.		Test per Certificate. Status Breaking Tons.	WEIGHT OF CHAIN CABLE		Fathoms and Size Per Table 31.		Description.	Makers of Cable.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire Tonnage.	Fathoms and size per Table 31.				
	Fathoms.	Inches.		Cwts.	qrs.	lbs.	Cwts.					qrs.	lbs.		Fathoms.	Inches.	Fathoms.	Inches.	
30519	135	2 3/4	86 1/2	120 5/8	334-3-21	645-3-0	270	2 7/16	✓	C.H. 20-8-20. S.C.P.	TOWLINE	120	4 7/8	47	120	4 7/8			
3250	135	2 3/4	90 6	124 9	371-0-12			Or.	A. BOESIG-WERKS	GLEWITZ 26-6-19 (Cable by G.L. Swings)	HAWERS & WARPS STEEL WIRE	360	2 3/4	15 1/2	90	2 3/4			
	90	4 3/4	✓	47				90	4 3/4			180	2 3/4	15 1/2	90	2 3/4			
												90	2 1/2	12 1/2	90	2 1/2			
Boats 2 Lifeboats, 2 Dinghys. Good																			
Pumps, Number 1 Hand Pump, 1 Donative Pump																			
Windlass is Clarke, Chapman's patent steam Good.																			
Engine Room Skylights.—How constructed? steel coverings																			
Coal Bunker Openings.—How constructed? steel coverings																			
Number of Scuppers, and numbers and dimensions of Freeing Ports, &c. 7 in shelter disk. 1 Freeing Port on s.d.s. 27 1/2 x 20"																			
Ceiling in Holds, thickness and material 2 1/2" pine double under hatchways Cargo Battens, thickness and material none. Close railing to lowest stowage																			
Cargo Hatchways.—How formed? steel coverings																			
State size No. 1 Hatch (Forward) 23'-3" x 24'-1" No. 2 Hatch 29'-9" x 28'-0" No. 3 Hatch 8'-3" x 27'-1 1/2" No. 4 Hatch 25'-6" x 28'-0"																			
Number of Web Plates, Shifting Beams and Fore and Afters to each Hatch N° 1 1.3 + 5 hatchways - 3 webs. N° 2 - 5 webs																			
No. of Breasthooks 4 No. of Crutches none																			
Bulwarks, height above deck and description 38" in shelter disk in way of house only Main Rail and Stays, material and size 7 x 3 x .40 B.A.																			
The foregoing is a correct description.																			
Builder's Signature (here only) [Signature] Surveyor's Signature [Signature] H. Hansen. F.M.S. [Signature]																			
Correspondence.—State dates and initials of letters respecting this case (Reference should be made in any correspondence connected with the case). See also letter "M"																			
Workmanship. Are the butts of plating planed or otherwise fitted? Not planed but carefully fitted																			
Is the riveted work properly closed? yes																			
Are the liners between the frames and plates solid single pieces? none																			
to plate, &c., conform well to each other? yes																			
from the faying surfaces? yes																			
Do any rivets break into or through the seams or butts of the plating? no																			
Are the butts of Plating, Stringers, &c., properly shifted and staggered? yes																			
Have all the upper and weather decks been tested as required by the Rules (Sec. 26, par. 20)? yes State results of tests Good																			
Have all the gutterways been tested as required by the Rules (Sec. 26, par. 20)? yes State results of tests Good.																			
General Remarks (State quality of workmanship, &c.) This vessel has been built under special survey and all the requirements of the Rules have been complied with.																			
Forgings and castings as per attached Reports																			
The W.I. Bulkheads and shaft tunnel have been tested with water from a hose and found tight.																			
The deep tanks and peak tanks have been tested as required by the Rules																			
The following parts of the bottom have been examined by Fire Peak, No. 1, 2 + 5 semi-deep tanks, engine room tank, dry tank under boilers and after peak.																			
The remainder of the bottom has been coated with Bitumastic																			
Dry tank under Boilers has been tested																			
No cargo battens are fitted in the holds or tween decks																			
The 2nd Bower anchor has been tested in Sweden by a Surveyor to Bureau Veritas																			
135 Fathoms of stud link cable has been tested in Germany by a Surveyor to the Germanischer Lloyd.																			
The Surveyor should state the Number of Report and Name of any Sister Vessel.																			
Plans to be forwarded with F.E. Report showing vessel as built.																			
(OVER)																			
The amount of Entry Fee \$K 163.00 :																			
Special Survey Fee ... \$K 634.30 :																			
Travelling Expenses, if any \$K 5.00 :																			
Fees applied for, Received by me, [Signature]																			
Certificate to be sent to Surveyor's office Date of issue 11/5/21.																			
State whether the Vessel has been built under Special Survey yes																			
I am of opinion this Vessel should be Classed + 100 A.I. "Shelter Deck"																			
With, or without Freeboard, as condition of Class With freeboard.																			
Committee's Minute																			
Character assigned																			
[Handwritten notes: 100 A.I. Shelter Deck with fld. Cargo batten not fitted above lower stringer																			

GENERAL REMARKS—(continued).

The Workmanship is good.

This vessel is a duplicate of the S.S. "C.F. Liljevalch" Gothenburg Reports No 4627 and plans of which were forwarded to London with the First Entry Report.

spare gear:- $\frac{1}{3}$ gear sector for Rudder Quadrant
2 blank flanges for dup tank direct filling pipe from sea

Ship converted to Oil fuel burning
Gothenburg 2/51 Rept JP 18059.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop ☒ ft., R.Q.D. ☒ ft., Bridge ☒ ft., Forecastle ☒ 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 it should appear in the Register Book) 1 dk (atl) + shelter dk (atl)
Official No. 6479; Signal Letters KOCH State if Machinery is fitted aft No
How are the surfaces preserved from oxidation? Inside Cement, Automatics + Paint Outside Paint

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

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	72.5	265	Fore peak tank,	18	55
Double bottom, under Engines and Boilers,			After peak tank,	26	202
Double bottom, if under Engines only,	21.3	94.5	Deep tank, aft, SIDES OF TUNNEL	57.5	520
DRY TANK UNDER BOILERS	19		Deep tank, forward,	66	645
Double bottom, if under Boilers only,	102	448	Other tanks, if fitted, MIDSHIPS.	15	462
Double bottom, forward,			(If necessary, furnish further information by sketch.)		
Total capacity of double bottom		807.5	State whether the above have been tested as required by the Rules	yes	

* The wells are not to be included in the lengths of the tanks 214.8

Order for Special Survey No. 99
Date 14-5-17
No. 355 in builder's yard.
DATES OF SURVEYS held while building
1919:- 27/8, 23/12. 1920:- 14/1, 17/1, 18/2, 18/3, 19/3, 20/3, 22/3, 24/3, 7/4, 29/4, 5/5, 10/5, 27/5, 28/5, 22/7, 16/8, 24/8, 2/9, 3/9, 13/9, 22/9, 7/10, 14/10, 26/10, 2/11, 3/11, 4/11, 5/11, 6/11, 9/11, 12/11, 14/11, 19/11, 19/11, 25/11, 30/11, 3/12, 7/12, 8/12, 15/12, 15/12, 17/12, 18/12
1921:- 18/1, 19/1, 19/1, 19/1, 22/1, 31/1, 26/2, 2/3, 2/3, 9/3, 10/3, 14/3, 14/3, 17/3, 17/3, 17/3, 18/3, 18/3, 19/3, 21/3, 22/3, 29/3, 30/3
Total No. of Visits 72

Surveyor's Signature

Lloyd's Register Foundation

Rpt. 4.

Date of writing

No. in S

Reg. Book

79965 0

Master C.A

Engines ma

Boilers ma

Registered

Nom. Horse

ENGINE

Dia. of Cyl

Is the screw

in the prop

between the

liners are

Dia. of Tun

collars 14

No. of Feed

No. of Bilge

No. of Don

In Engine

two 3

No. of Bilge

Are all the bi

Are all conn

Are then fire

Can each boi

each boiler 9

Smallest dista

Thickness 1/2

long. seams of

Per centages of

Size of compen

Length of plai

Working press

Pitch of stays

Material of sta

Material Ste

Area at small

Thickness 13/16

Diameter of tu

Pitch across

thickness of gir

Working press

Diameter

Pitch of rivets

PERHE

Date of Test

Diameter of Saf