

With or Without Disconnected Erections.

STEEL STEAMER.

Received at London Office MAY 2-1913

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

Date of completion of report *1st May 1913* Port of *Middlesbrough* No. *4892*
Survey held at *Middlesbrough* Date, First Survey *8th July 1912* Last Survey *30th April 1913*
On the *Screw Steamer Hagama* Rig *Schooner*

TONNAGE under
Tonnage Deck...
Do. between Tonnage Dk. and 3rd and 4th Dk.
Total under Upper Dk. *4540.84*
Do. of Poop *108.86*
Do. of R.Q. Dk.
Do. of Bridge House
Do. of Forecastle
Do. of Houses on Dk. *122.30*
Do. of access of Hatchways *136.05*
Do. above Crown of Engine Room *61.33*
Gross Tonnage *4969.38*
Less Crew Space *170.07*
Less above Crown of Engine Room *61.33*
TONNAGE FOR FEES... *4737.98*
Less Engine Room *1590.20*
Less Navigation Spaces *600.08*
Register Tonnage *2609.03*

CLASS ** 100 A1.* FEET.
Breadth (greatest moulded) *52.25*
Depth, at middle of length from top of keel to top of upper deck beams at side *30.00*
Transverse Number ** 82.25*
Length on deck from fore part of stem to after part of stern post *380*
Longitudinal Number *31255*
Depth "d" at middle of length (See Secs. 2 & 13) *18.3*
Proportions—Depths to Length—Upper Deck Beam at side to top of keel *12.67*
" " Long Bridge Deck Beam at side to top of keel *10.14*

Master *J. O. Osterwald*
Year of appointment *(1) As Master in service of owner of present vessel: 1913 (2) As Master of this vessel: 1913*
Built at *Middlesbrough*
When built *1913-4* Launched *11th March 1913*
By whom built *Sir Raylton Dixon & Co. Ltd*
Owners *Aktieselskabet Asker*
Managers *(Where necessary to be entered in Reg. Book.)*
Residence *Kristiania*
Port belonging to *Kristiania*

Destined Voyage *Havana* If Surveyed while Building, Afloat, or in Dry Dock *Yes*

LENGTH on Deck as per Rule *380* Feet. *0* Inches. BREADTH—Moulded *52* Feet. *3* Inches. DEPTH, ACTUAL—Top of Floors to top of Upper Dk. Beams *27* Feet. *6 1/2* Inches. No. of Decks with flat laid *1*. No. of Tiers of Beams *1*.
Moulded depth, ft. *37* ins. *6 1/2* To Bridge Dk. Round of Upper Dk. Beam, Actual *13* ins.
Moulded depth, ft. *30* ins. *0* To Upper Dk.

FRAMING.						PILLARS.					
	Inches in Ship	Inches in Ship	Inches in Ship	Inches per Rule Or as	Inches per Rule Approved		Inches in Ship	Inches in Ship	Inches in Ship	Inches per Rule Or as	Inches per Rule Approved
FRAME, Angles or E or L Bars amidships	10	3 1/2	6 1/4	10	3 1/2	6 1/4	PILLARS, In 'tween Deck, size and spacing	2 1/4	2 1/4	2 1/4	2 1/4
Do. in peaks	7	3 1/2	4 1/2	7	3 1/2	4 1/2	" " Hold	Beams increased in length			
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	4 1/2	3 1/2	3 1/2	4 1/2	" Quarter 'tween Dks.,	2 1/4	2 1/4	2 1/4	2 1/4
" " " at intermed. Dkts.							" " in Hold	Top side tank construction			
Spacing of Frames from centre to centre amidships	36	1		36			KEELSONS & STRINGERS.				
" " " length to Collision bulkhead	27	1		27			CENTRE LINE KEELSON, Vertical Plate above				
" " " in peaks	24	1		24			floors, Through Plate, or Intercoastal Plate				
REVERSED FRAME, Angles	Frames B.A. section						Rider Plate				
Do. in way of Double Bottoms at Solid Floors	3 1/2	3 1/2	4 1/2	3 1/2	3 1/2	4 1/2	Flat Plate Keel Angles				
" " " at intermed. Dkts.							Horizontal Plates on Floors				
FRAMING, depth of girder	10	1		10			Angles or Bulb Angles				
FLOORS, depth and thickness of Floor Plate at mid-line for 1/2 length amidships	6 1/2	20	13				SIDE KEELSONS, Number				
" in way of Engine and Boiler Spaces	4 1/2	50	1	4 1/2	50		Angles or Bulb Angles				
" thickness at the ends of vessel	40	1		40			Plate above floors, for length				
" depth at 1/2 the half breadth, as per Rule							Intercoastal Plate, for length				
" height extended at the Bilges							Attached to outside Plating with Angle				
FLOORS & BRACKETS in Cell Dble Bottoms	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	BILGE KEELSON, Angles				
" " state if flanged (top & bottom)	No			No			Intercoastal Plate for length				
" " Spacing	36	6	27	36	6	27	Attached to outside Plating with Angle				
CENTRE GIRDER, in Dbl. bottom, dpth. & thcknss.	4 1/2	60	50	4 1/2	60	50	SIDE STRINGERS, Number				
" " Angles, Top	4 1/2	4 1/2	60	4 1/2	4 1/2	60	Angles				
" " Bottom							Intercoastal Plate, for full length				
" " to Floors	5	5	60	5	5	60	Attached to outside plating with Angle				
SIDE GIRDERS, number on each side & thickness	No			No							
" " state if flanged (top and bottom)	No			No							
" " Angles (top and bottom)	3 1/2	3 1/2	4 1/2	3 1/2	3 1/2	4 1/2					
" " to Floors	3	3	1	3	3	1					
MARGIN PLATE, depth (exclusive of flange) and thickness	3 1/2	50	133	3 1/2	50	133					
" " Angles to Outside Plating	3 1/2	3 1/2	4 1/2	3 1/2	3 1/2	4 1/2					
" " Floors											
" " Height of Brackets above at bilge	24	1		24							
INNER BOTTOM PLATING, breadth and thickness of Middle Line Strake	4 1/2	50	4 1/2	50	4 1/2	4 1/2					
" " in Engine and Boiler space	5 1/2	56	1	5 1/2	56	1					
" " Remainder in Holds	4 1/2	4 1/2	1	4 1/2	4 1/2	1					
BEAMS, Upper Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	12	12	12	12	12	12					
" " Angles on upper edge	6	3 1/2	4 1/2	6	3 1/2	4 1/2					
" " In way of Long Bridge	Same as above										
" " Spacing	36	6	24	36	6	24					
BEAMS, Second Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8	3	50	8	3	50					
" " Angles on upper edge	4 1/2	3	4 1/2	4 1/2	3	4 1/2					
" " Spacing	36	1		36							
BEAMS, Third and Fourth Deck, Single Angle, Bulb Angle, Plate, Tee Bulb, or Channel	7 1/2	3 1/2	56	7 1/2	3 1/2	56					
" " Angles on upper edge	8 1/2	3	4 1/2	8 1/2	3	4 1/2					
" " Spacing	36			36							
BEAMS, Poop Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	6 1/2	3	40	6 1/2	3	40					
" " Angles on upper edge											
" " Spacing	Every frame										
BEAMS, Bridge Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	8	3	50	8	3	50					
" " Angles on upper edge	4 1/2	3	4 1/2	4 1/2	3	4 1/2					
" " Spacing	36			36							
BEAMS, Forecastle Deck, Angle, Bulb Angle, Plate, Tee Bulb, or Channel	7 1/2	3 1/2	56	7 1/2	3 1/2	56					
" " Angles on upper edge	8 1/2	3	4 1/2	8 1/2	3	4 1/2					
" " Spacing	Alternate frames										

7730-0099

WEB FRAMES.				FORGINGS or CASTINGS.				Inches in Ship.				Inches per Rule.			
WEB FRAMES, In Fore Body, No. and spacing				KEEL, Bar, depth and thickness				Inches in Ship.				Inches per Rule.			
No. of Side Stringers				STEM, moulding and thickness				Inches in Ship.				Inches per Rule.			
WEB FRAMES, In E. & B. Space, No. and spacing				STERN-POST for Rudder do. do.				Inches in Ship.				Inches per Rule.			
brdth. & thickness				for Propeller				Inches in Ship.				Inches per Rule.			
WEB FRAMES, In After Body, No. and spacing				RUDDER-A x D Table 22. Speed				Inches in Ship.				Inches per Rule.			
brdth. & thickness				Main-Piece, diameter at head				Inches in Ship.				Inches per Rule.			
No. of Side Stringers				at heel				Inches in Ship.				Inches per Rule.			
Size of Face Angles to Web-Frames				RUDDER, how constructed				Inches in Ship.				Inches per Rule.			
BRACKET PLATES to Stringers between				Thickness of				Inches in Ship.				Inches per Rule.			
Web Frames, depth and thickness				Can the Rudder be unshipped afloat?				Inches in Ship.				Inches per Rule.			
Topside tank Construction				Forged & built				10 x 2 1/4 10 x 2 1/4				10 x 2 1/4 10 x 2 1/4			
BULKHEADS.				STIFFENERS.				Single or Double Frames.				Height up.			
W.T. BULKHEADS				STIFFENERS				Single or Double Frames				Height up			
COLLISION				STIFFENERS				Single or Double Frames				Height up			
PARTITION				STIFFENERS				Single or Double Frames				Height up			
LONGITUDINAL				STIFFENERS				Single or Double Frames				Height up			
Are the outside Plates doubled two spaces of Frames in length?				Are the Spline Valves and Watertight Doors in efficient working order?				Manufacturer's name or trade mark of the Iron or Steel (state process of manufacture of Steel) used for Frames, Floors, Beams, Keelsons, Tie and Stringer Plates, Plating, &c.?				Has the Steel been tested as required by the Rules?			
Diamonds				Yes				Glenhead Basic or Acid Process				Yes			
Plating.				Riveting.				Edges.				Butts.			
STRAKES.				AS IN SHIP.				PER RULE OR AS APPROVED.				EDGES.			
Breadth.				Thickness.				Breadth.				Thickness.			
Flat Plate Keel				Garboard of A Strake				B				C			
D				E				F				G			
H				I				J				K			
L				M				N				O			
P				Q				R				S			
T				U				V				W			
X				Y				Z				AA			
AB				AC				AD				AE			
AF				AG				AH				AI			
AJ				AK				AL				AM			
AN				AO				AP				AQ			
AR				AS				AT				AU			
AV				AW				AX				AY			
AZ				BA				BB				BC			
BD				BE				BF				BG			
BH				BI				BJ				BK			
BL				BM				BN				BO			
BP				BQ				BR				BS			
BT				BU				BV				BW			
BX				BY				BZ				CA			
CB				CC				CD				CE			
CF				CG				CH				CI			
CJ				CK				CL				CM			
CN				CO				CP				CQ			
CR				CS				CT				CU			
CV				CW				CX				CY			
CZ				DA				DB				DC			
DD				DE				DF				DG			
DH				DI				DJ				DK			
DL				DM				DN				DO			
DP				DQ				DR				DS			
DT				DU				DV				DW			
DX				DY				DZ				EA			
EB				EC				ED				EE			
EF				EG				EH				EI			
EJ				EK				EL				EM			
EN				EO				EP				EQ			
ER				ES				ET				EU			
EV				EW				EX				EY			
EZ				FA				FB				FC			
FD				FE				FF				FG			
FH				FI				FJ				FK			
FL				FM				FN				FO			
FP				FQ				FR				FS			
FT				FU				FV				FW			
FX				FY				FZ				GA			
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GV				GW				GX				GY			
GZ				HA				HB				HC			
HD				HE				HF				HG			
HH				HI				HJ				HK			
HL				HM				HN				HO			
HP				HQ				HR				HS			
HT				HU				HV				HW			
HX				HY				HZ				IA			
IB				IC				ID				IE			
IF				IG				IH				II			
IJ				IK				IL				IM			
IN				IO				IP				IQ			
IR				IS				IT				IU			
IV				IW				IX				IY			
IZ				JA				JB				JC			
JD				JE				JF				JG			
JH				JI				JJ				JK			
JL				JM				JN				JO			
JP				JQ				JR				JS			
JT				JU				JV				JW			
JX				JY				JZ				KA			
KB				KC				KD				KE			
KF				KG				KH				KI			
KJ				KK				KL				KM			
KN				KO				KP				KQ			
KR				KS				KT				KU			
KV				KW				KX				KY			
KZ				LA				LB				LC			
LD				LE				LF				LG			
LH				LI				LJ				LK			
LL				LM				LN				LO			
LP				LQ				LR				LS			
LT				LU				LV				LW			
LX				LY				LZ				MA			
MB				MC				MD				ME			
MF				MG				MH				MI			
MJ				MK				ML				MN			
MO				MP				MQ				MR			
MS				MT				MU				MV			
MW				MX				MY				MZ			
NA				NB				NC				ND			
NE				NF				NG				NH			
NI				NJ				NK				NL			
NM				NO				NP				NQ			
NR				NS				NT				NU			
NV				NW				NX				NY			
NZ				OA				OB				OC			
OD				OE				OF				OG			
OH				OI				OJ				OK			
OL				OM				ON				OO			
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OT				OU				OV				OW			
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PB				PC				PD				PE			
PF				PG				PH				PI			
PJ				PK				PL				PM			
PN				PO				PP				PQ			
PR				PS				PT				PU			
PV				PW				PX				PY			
PZ				QA				QB				QC			
QD				QE				QF				QG			
QH				QI				QJ				QK			
QL				QM				QN				QO			
QP				QQ				QR				QS			
QT				QU				QV				QW			
QX				QY				QZ				RA			
RB				RC				RD				RE			
RF				RG				RH				RI			
RJ				RK				RL				RM			
RN				RO				RP				RQ			
RR				RS				RT				RU			
RV				RW				RX				RY			
RZ				SA				SB				SC			
SD				SE				SF				SG			
SH				SI				SJ				SK			
SL				SM				SN				SO			
SP				SQ				SR				SS			
ST				SU				SV				SW			
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VF				VG				VH				VI			
VJ				VK				VL				VM			
VN				VO				VP				VQ			
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VV				VW				VX				VY			
VZ				WA				WB				WC			
WD				WE				WF				WG			
WH				WI				WJ				WK			
WL				WM				WN				WO			
WP				WQ				WR				WS			
WT				WU				WV				WW			
WX				WY				WZ				XA			
XB				XC				XD				XE			
XF				XG				XH				XI			
XJ				XK				XL				XM			
XN				XO				XP				XQ			
XR				XS				XT				XU			
XV				XW				XX				XY			
XZ				YA				YB				YC			
YD				YE				YF				YG			
YH				YI				YJ				YK			
YL				YM				YN				YO			
YP				YQ				YR				YS			
YT				YU				YV				YW			
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ZD				ZE				ZF				ZG			
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HX				HY				HZ				IA			
IB				IC				ID				IE			

GENERAL REMARKS—(continued).

Rpt. 4.

Date of writing Report

No. in Survey
Reg. Book.

42 on the

Master

Engines made at

Boilers made at

Registered Horse

Nom. Horse Power

ENGINES, &c

Dia. of Cylinders

Is the screw shaft

in the propeller b

between the bearing

liners are fitted, is

Dia. of Tunnel shaft

collars 13 3/4 D

No. of Feed pumps

No. of Bilge pumps

No. of Donkey Eng

In Engine Room

No. of Bilge Injection

Are all the bilge suctions

Are all connections

Are they fixed suffici

Are they each fitted

What pipes are car

Are all Pipes, Cock

Are the Bilge Suction

Dates of examination

Is the Screw Shaft

BOILERS, &c

Total Heating Su

Working Pressur

Can each boiler be

each boiler Two

Smallest distance bet

Thickness 1 3/16

long. seams 1/8

Per centages of stre

Size of compensating

Length of plain pa

Working pressure of

Pitch of stays to di

Material of stays

Material Steel

Diameter at small

Thickness 1 Ma

Diameter of tubes

Pitch across wid

thickness of girder

Working pressure

separately

notes

Pitch

If stiffened with ring

Working pressure

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 33.16 ft., R.Q.D. 40, Bridge 105 ft., Forecastle 34.85 ft.
(in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated. The Poop & Bridge are not joined

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 Deck (St), Cantilever framed, topside tanks
Official No. 1; Signal Letters 1; State if Machinery is fitted aft No.

How are the surfaces preserved from oxidation? Inside Cement, Bitumastic in bilges & paint Outside Paint

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

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	129	362	Fore peak tank,	20	95
Double bottom, under Engines and Boilers,	39	171	After peak tank,	14	155
Double bottom, if under Engines only,			Deep tank, aft,		
Double bottom, if under Boilers only,			Deep tank, forward,		
Double bottom, forward,	160.5	483	Other tanks, if fitted, Topside Port & Starboard	34.2	1516
Total capacity of double bottom		1016	(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. Yes Satisfactory

Order for Special Survey No. 984

Date 6.6.12

No. 577 in builder's yard.

DATES OF SURVEYS held while building

1912 July 8.11.19.22.30.31. Aug 2.6.12.17.23.25.27. Oct 3.9.10.15.17.24.29. Nov 5.14.18.22.24.29. Dec 3.5.6.9.10.16.19. 1913 Jan 7.8.9.10.12.14.15.20.21.23.27.30.31. Feb 3.4.6.7.11.12.13.14.15.17.18.19.21.24.26.27.28. Mar 3.5. 1914 Jan 10.11.12.13.14.17.19.20.27. Apr 1.4.8.9.16.17.18.19.21.22.24.25.26.28.29.30.

Total No. of Visits 2025

Surveyor's Signature

Wm L. Gilman

Lloyd's Register Foundation