

WOOD SHIP.

No. **543**. Survey held at **Aberdeen** Date, First Survey **Feb 26** Last Survey **Feb. 20th. 1918**
on the **5 masted Aux. Twin Screw Sch. Balestrand** Master **M. Warholm.**

Official Number **215 877**
Official Letter **L.M.H.**

TONNAGE under Tonnage Deck	2097.09
Ditto of Spar Deck, or Awning Deck	167.35
Ditto of Poop, or Raised Or. Dk.	12.07
Ditto of Houses on deck round.	78.99
Ditto of Forecastle	2403.23
Gross Tonnage	175.57
Crew Space, as per Rule	18.81
Register Tonnage, cut on Beam	246.8
Engine Room	277.50
Register Tonnage, as a Steamer, cut on the Beam	1906.66

Built at **Aberdeen** When built **1917** Launched **Sept 22**
By whom built **Grays Harbor Shipbuilding Co.** Owners **Balestrand Nav. Co. P. Kleppe & Osterold**
Port belonging to **New York.** Destined Voyage **SHANGHAI**
If Surveyed while Building, Afloat, or in Dry Dock **On Stocks.**

Length as per Section 39	268 0	Extreme Breadth Outside...	48 1	Depth of Hold (less 8" scamm)	24 1 1/2	No. of Decks with Flat laid	one
Length of Keel	250 0	Round of Beam	8"	Depth from limber-strakes to under side of lower deck beam	12 8	No. of Tiers of Beams	two
				Depth, Moulded	26 10		

SCANTLINGS OF TIMBER.	IN SHIP.						REQUIRED PER RULE, <i>and</i> AS APPROVED.			OUTSIDE PLANK.	THICKNESS.		Dimensions of Ship per Register.		
	SIDED.	MOULDED.			SIDED.	MOULDED.			In Ship.		Per Rule, <i>and</i> as Approved.				
		Middle.	Ends.	Ins.		Middle.	Ends.	Ins.							
												Ins.			
ND SPACE	32"	✓			32"				Garboard Strakes	11-9 x 7	11-9 x 7	Length 267-8 breadth 48-1 depth 23-9 23-8	THICKNESS.		
.....	12	✓	26½	19	12	26½	19		Garboard to Bilge	5	5				
oks	12	✓	18½	18	12	19½	18		Bilge Planks	6	6	INSIDE PLANK.	In Ship.	Per Rule <i>and</i> as Approved.	
.....	12	✓	19	17½	12	19	17½		Bilge to Wales	6	6				
.....	12	✓	18	16	12	18	16		Wales	7	7	Lumber Strakes	Ins.	Ins.	
ers	12	✓	12	10	12	12	10		Topsides	7	7				
To 65' Average Space } 4'0"	16	✓	16	12	16	16	12		Sheer Strakes	7	7	Bilge Planks	14 x 12	14 x 12	
ms, length amidships	44 feet				44 feet.				Plank Sheers	6	6	Ceiling in Flat	10"	10"	
To 60' Average Space } 4'0"	16		14	14	16	14	14		Water } Upper Deck... 20 x 14 20 x 14			Ditto Bilge to Clamp ..	12"	12"	
ms, length amidships	42 feet				42 feet.				Ways } Lower Deck... 16 x 14 20 x 14			Hold Beam Clamps ...	16 x 18	16 x 18	
.....	20		24	24	20	24	24		Ditto, faying surface against Timbers	14"	14"	Deck Beam Ditto	16 x 18	16 x 18	
f Ditto	14 feet				14 feet.				Upper deck	5"	5"	Ceiling 'twixt Decks ...	12"	12"	
Nine	20		20	20	20	20	20					Hold Beam Shelves			
f Ditto	12 feet				12 feet.							Deck Beam Ditto			

Size of Bolts in Fastenings, distinguishing whether Copper, Yellow Metal, or Iron; also of Treenails.

	Copper or Yellow Metal in Ship.			Size required per Rule, as approved.		Iron in Ship.			Size required per Rule, as approved.		Copper or Yellow Metal in Ship.			Size required per Rule, as approved.	
	Ins.	Ins.	Ins.			Ins.	Ins.	Ins.			Ins.	Ins.	Ins.		
Transoms and throats of Hooks	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Arms of Hooks	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Thro' Bilge and Limber Strakes	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Thickstuff over Double Floors	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Butt End Bolts	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Short Bolts in Ceiling	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Pintles of the Rudder	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Hold Beam Waterway	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Bolts in Knees	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Deck Beam Waterway	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Bolts in Knees	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Nails or Bolts in Flat of Deck	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		
Treenails	1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"			1 1/4"	1 1/4"	1 1/4"		

FRING.—The Space between the Floor Timbers and Lower Foothooks is **8"** Inches. The Space between the Top-Timbers is **8"** Inches.

rs consist of **douglas fir**. The First Foothooks of **douglas fir**

nd Foothooks of **douglas fir**. The Third Foothooks and Top Timbers of **douglas fir**

n Keelson is **douglas fir** and is free from all defects. The Shifts of the First and Second Foothooks are not less than **4 ft.**

der Keelson is **douglas fir**. N.B.—When less than prescribed by the Rules, state how many.

nsoms, Knightheads, Hawse Timbers, & Aprons of **douglas fir** ditto. The rest of the Shifts of the Frame are **4 ft.**

nd, of **douglas fir** and is free from defects. The Frame is **24 x 19 1/2"** squared from First Foothook Heads upwards,

n, and Stern Post of **douglas fir** and is ditto. and is free from sap, and from thence downwards, the frame is **24 x 26 1/2"**

nk and Hold Beams of **douglas fir**. " " " The double Frames are **through** bolted together to the Gunwale.

oks of **douglas fir** Knees of **douglas fir** N.B.—If not, state how bolted.

in piece of Rudder of **Iron bark** Windlass of **Cast iron steam** The Butts of the Timbers are **fitted** close together; their thickness not

el of **douglas fir**. **Hess-Martin Iron Works** less than **full depth** of the entire moulding at that place.

KING OUTSIDE.—From the top of the Keel to two-fifths the depth of Hold, the Plank is **of douglas fir**. The Frame is **butt** chocked with **—** Butt at each end of the chock.

he above named height to the Wales **douglas fir**

les and Black-strakes **of douglas fir** The Topsides and Sheer-strakes **of douglas fir**

ircketting and Plank-sheers **of douglas fir** The Water-ways { Upper Deck **douglas fir**

eks **douglas fir** State of **good** { Lower Deck **douglas fir**

ifts of the Planking are not less than **12'** Feet **0** Inches. N.B. If less than prescribed by the Rule, state whether general or partial,

if partial, in what part of the Ship. The Planking is wrought **4-strakes** between, and without step-buttling.

KING INSIDE.—The Limber-strakes and Bilge-strakes are **of douglas fir**

iling, Lower Hold, and between Decks **of douglas fir** Shelf Pieces and Clamps **✓**

ENINGS.—To Hold Beams **with douglas fir hanging knees through bolted and clinched.**

Beams **with douglas fir hanging knees, and lodging knees to all mast**

beams, earling beams through bolted and clinched.

r of Breasthooks **2** Pointers **3** Crutches **3**

nd Bolts are of **7/8 Galv. bolts** in the Bottom **one** Bolts in each Butt End **and** through and clinched.

nd Limber Strakes **are** bolted through and clinched. Treenails of **Locust wood** How made **straight grained**

uff over Double Floors **are** bolted through and clinched. General quality of Workmanship **good.** **Engine turned.**

We certify that the above is a correct description of the several particulars therein given.

grays Harbor Shipbuilding Co. Surveyor's Signature **W. Hollings & Co.**

's Signature **W. Hollings & Co.** Surveyor to Lloyd's Register of British and Foreign Shipping

ANCHORS.

[illegible]

CHAIN CABLES.

CHAIN CABLES.														
Number of Certificate.	Fathoms.	Size.	Test per Certificate. Tons.	Weight of Chain Cable.		Fathoms and Size per Rule.	Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Fathoms.	Size.	Breaking Test of Steel Wire Towline.	Fathom Size per
				Supplied.	Per Rule.									
555	240	1 13/16	59.2.2.0	426.2.2	997.3.6	240 of 1 13/16	stud link	Bradlee & Co.	Philadelphia 5/25/77 W. Walters.	TOWLINE (MANILA)	90	12	✓	30
										HAWSER	2-90	7	✓	2-90
										WARP	2-90	6	✓	2-90
Iron Steam Chain	75	1 1/8	NOT TESTED.			75-1 1/8"		Seattle Chain Co.	Seattle. Wash.					

Masts, Yards, &c., are in good condition, and sufficient in size and length.

Standing and Running Rigging is good sufficient in size and good in quality.

Sails. good one Suit of fore & aft, one square Sails, and the following spare sails one main sail, one inner jib.

Boats 2 - 22 ft life, and one 16" dinghy.

Windlass, present state is efficient Capstan efficient Rudder efficient Pumps 2-8^{1/2} hand pumps, 1- duplex to hold, steam 1- 7x10 geared to eng. m a fairbanks

Scuppers, &c.—What arrangements are there beyond the scuppers on deck, for clearing upper deck of water, in case of a sea coming on board?

3 - freeing ports. 30"x9" and 4 scuppers each side.

Cargo Hatchways.—How formed? 3 - freeing ports. 30"x9" and 4 scuppers each side.

If of extraordinary size, state how framed and secured?

What arrangement for shifting beams? 1-s-8 to No 2 and 4 hatches, 2-s-8 to No 1 and 3 hatches 10"x18" - all hatchways 2-5 fore & aft 10"x8" one 12"x8" centre ways

Hatches, themselves, whether strong and efficient? yes - 3 1/2" douglas fir. Main Hatchways. State size 28'x20'

Oct 26 1914.

Order for Special Survey, No. 32

Date Oct. 3rd. 1917

Order for Ordinary Survey, No.

Date _____

No. 6 in Builder's Yard.

General Remarks.

DATES of Surveys
 held while building,
 as per Section 35.

- 1st. When the Frame is completed
- 2nd. When the Beams are put in,
- 3rd. When completed and before the plank be painted or payed

Feb. 26 1914.
Mar 15th 16, 27. April 11. 26. June 1. 9. 10. 29
July 20 Aug. 24. Sept. 7 Oct. 5 - 30. Nov. 3. 2
Jan 1918 - 8 - 26, Feb. 16 - 20th
Total 21. visits
1010 1110 1210 1310 1410 1510 1610 1710 1810 1910 2010 2110 2210 2310 2410 2510 2610 2710 2810 2910 3010 3110 3210 3310 3410 3510 3610 3710 3810 3910 4010 4110 4210 4310 4410 4510 4610 4710 4810 4910 5010 5110 5210 5310 5410 5510 5610 5710 5810 5910 6010 6110 6210 6310 6410 6510 6610 6710 6810 6910 7010 7110 7210 7310 7410 7510 7610 7710 7810 7910 8010 8110 8210 8310 8410 8510 8610 8710 8810 8910 9010 9110 9210 9310 9410 9510 9610 9710 9810 9910 10010 10110 10210 10310 10410 10510 10610 10710 10810 10910 11010 11110 11210 11310 11410 11510 11610 11710 11810 11910 12010 12110 12210 12310 12410 12510 12610 12710 12810 12910 13010 13110 13210 13310 13410 13510 13610 13710 13810 13910 14010 14110 14210 14310 14410 14510 14610 14710 14810 14910 15010 15110 15210 15310 15410 15510 15610 15710 15810 15910 16010 16110 16210 16310 16410 16510 16610 16710 16810 16910 17010 17110 17210 17310 17410 17510 17610 17710 17810 17910 18010 18110 18210 18310 18410 18510 18610 18710 18810 18910 19010 19110 19210 19310 19410 19510 19610 19710 19810 19910 20010 20110 20210 20310 20410 20510 20610 20710 20810 20910 21010 21110 21210 21310 21410 21510 21610 21710 21810 21910 22010 22110 22210 22310 22410 22510 22610 22710 22810 22910 23010 23110 23210 23310 23410 23510 23610 23710 23810 23910 24010 24110 24210 24310 24410 24510 24610 24710 24810 24910 25010 25110 25210 25310 25410 25510 25610 25710 25810 25910 26010 26110 26210 26310 26410 26510 26610 26710 26810 26910 27010 27110 27210 27310 27410 27510 27610 27710 27810 27910 28010 28110 28210 28310 28410 28510 28610 28710 28810 28910 29010 29110 29210 29310 29410 29510 29610 29710 29810 29910 30010 30110 30210 30310 30410 30510 30610 30710 30810 30910 31010 31110 31210 31310 31410 31510 31610 31710 31810 31910 32010 32110 32210 32310 32410 32510 32610 32710 32810 32910 33010 33110 33210 33310 33410 33510 33610 33710 33810 33910 34010 34110 34210 34310 34410 34510 34610 34710 34810 34910 35010 35110 35210 35310 35410 35510 35610 35710 35810 35910 36010 36110 36210 36310 36410 36510 36610 36710 36810 36910 37010 37110 37210 37310 37410 37510 37610 37710 37810 37910 38010 38110 38210 38310 38410 38510 38610 38710 38810 38910 39010 39110 39210 39310 39410 39510 39610 39710 39810 39910 40010 40110 40210 40310 40410 40510 40610 40710 40810 40910 41010 41110 41210 41310 41410 41510 41610 41710 41810 41910 42010 42110 42210 42310 42410 42510 42610 42710 42810 42910 43010 43110 43210 43310 43410 43510 43610 43710 43810 43910 44010 44110 44210 44310 44410 44510 44610 44710 44810 44910 45010 45110 45210 45310 45410 45510 45610 45710 45810 45910 46010 46110 46210 46310 46410 46510 46610 46710 46810 46910 47010 47110 47210 47310 47410 47510 47610 47710 47810 47910 48010 48110 48210 48310 48410 48510 48610 48710 48810 48910 49010 49110 49210 49310 49410 49510 49610 49710 49810 49910 50010 50110 50210 50310 50410 50510 50610 50710 50810 50910 51010 51110 51210 51310 51410 51510 51610 51710 51810 51910 52010 52110 52210 52310 52410 52510 52610 52710 52810 52910 53010 53110 53210 53310 53410 53510 53610 53710 53810 53910 54010 54110 54210 54310 54410 54510 54610 54710 54810 54910 55010 55110 55210 55310 55410 55510 55610 55710 55810 55910 56010 56110 56210 56310 56410 56510 56610 56710 56810 56910 57010 57110 57210 57310 57410 57510 57610 57710 57810 57910 58010 58110 58210 58310 58410 58510 58610 58710 58810 58910 59010 59110 59210 59310 59410 59510 59610 59710 59810 59910 60010 60110 60210 60310 60410 60510 60610 60710 60810 60910 61010 61110 61210 61310 61410 61510 61610 61710 61810 61910 62010 62110 62210 62310 62410 62510 62610 62710 62810 62910 63010 63110 63210 63310 63410 63510 63610 63710 63810 63910 64010 64110 64210 64310 64410 64510 64610 64710 64810 64910 65010 65110 65210 65310 65410 65510 65610 65710 65810 65910 66010 66110 66210 66310 66410 66510 66610 66710 66810 66910 67010 67110 67210 67310 67410 67510 67610 67710 67810 67910 68010 68110 68210 68310 68410 68510

General Remarks. This vessel has been built in accordance with the approved plans, in secret correspondence and in general conformity to the rules for the class contemplated, the fastenings of the outside planking where of iron is galv'd, the garboards are fastened to the floor with $4-1\frac{1}{2} \times 28$ " galv'd bolts, and edge bolted into the keel with $1\frac{1}{2}$ " drift bolts in frame spaces. The outside planking is fastened with two trenails and two galv'd spikes in each frame. Two longitudinal steel plate straps $\frac{3}{4} \times 14$ " are fitted and secured to the outside of frame at top sides in parallel line with sheer for $\frac{3}{5}$ length thence in a diagonal line at the ends to within 8 ft. of keel; two diagonal straps 4×1 " are also fitted and secured to deck beams in way of each hatch, instead of lodging knees; the setting of the vessel has been carried out in accordance with 37 of the rules, except the setting of the beams, and air courses fitted all fore and aft as per rule. The center and rider keelsons are fastened with $4-1\frac{1}{2}$ " bolts, clinched, all the ^{all edge bolted in alternate frame spaces with} rider keelsons with $2-1\frac{1}{4}$ " drift bolts & wing and keelsons with $4-1\frac{1}{4}$ " clinched bolts; the bottom ceiling fastened with $4-1\frac{1}{2} \times 24$ " bolts and the ceiling above with $2-1\frac{1}{2}$ " clinched bolts two drift bolts in each frame and edge bolted with $1\frac{1}{2}$ " drift bolts 4 ft. apart in diagonal strapping to frames. Fuel tanks have been built and tested as per approved plans and provisions fitted to prevent oil coming in contact with ceiling. Copies of the approved midship section, profile and deck plans are herewith forwarded.

Present condition of Caulking of Bottom Good Deck, good and Waterways good.

If Sheathed, Doubled, Felted, Coppered, or Yellow Metalled

When last done

I am of opinion this Vessel should be Classed A-1-12 years, salted

The Amount of the Entry Fee \$:25:00

Special
Certificato
Received by me,

105-61 March 4, 1918

new york 1940

Committee's Minute New York APR 16 1918

† 12 Al. Schriek

Character assigned 172, 11, 10/18

note: Salted + anal. 2.10.

elec. light



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TUE. 13 MAY. 1919

FRI. 7 - NOV. 1915

TUE. 6-JAN 1920

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Lloyd's Regis