

REPORT ON MACHINERY.

No. 2312

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Received at London Office

Date of writing Report _____ When rendered in at Local Office _____ Port of _____
 No. in Survey held at Osaka and Innoshima Date, First Survey _____ Last Survey July 2nd 1918
 Reg. Book. _____
 on the Steel Triple Screw Steamer "War Maid" (Number of Vents _____) Tons } Gross 4378.88
 } Net 2767.33
 Master G. Baker Built at Innoshima By whom built Osaka Iron Works (Innoshima Branch) When built 1918
 Engines made at Osaka By whom made Osaka Iron Works when made 1918
 Boilers made at Osaka By whom made Osaka Iron Works when made 1918
 Registered Horse Power _____ Owners Butterfield and Swire Port belonging to _____
 Nom. Horse Power as per Section 28 390 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks Three
 Dia. of Cylinders 24, 41, 67 Length of Stroke 48 Revs. per minute 65 Dia. of Screw shaft as per rule 13.96 Material of Steel
as fitted 14 1/2 screw shaft)
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight
 on the propeller boss Yes If the liner is in more than one length are the joints burned _____ If the liner does not fit tightly at the part
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Charly fitted If two
 liners are fitted, is the shaft lapped or protected between the liners _____ Length of stern bush 5'-4"
 Dia. of Tunnel shaft as per rule 15.46 Dia. of Crank shaft journals as per rule 13.09 Dia. of Crank pin 1 3/4 Size of Crank webs 8 1/2 x 25 Dia. of thrust shaft under
 collars 13 1/4 Dia. of screw 17'-0" Pitch of Screw 17'-0" No. of Blades 4 State whether moveable no Total surface 90 sq ft
 No. of Feed pumps Two Diameter of ditto 4" Stroke 25" Can one be overhauled while the other is at work Yes
 No. of Bilge pumps Two Diameter of ditto 4" Stroke 25" Can one be overhauled while the other is at work Yes
 No. of Donkey Engines Two Sizes of Pumps Select 9 1/2 x 2 x 10 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room Two wings 3 1/2 Tunnel well 3 1/2 In Holds, &c. After hold 2 @ 3 1/2 cu ft & 2 @ 3 1/4
wings. Nos 1 and 2 holds each 3 1/2 cu ft and 2 @ 2 3/4 wings
 No. of Bilge Injections 1 sizes 7" Connected to condenser, or to circulating pump circ. pump Is a separate Donkey Suction fitted in Engine room & size Yes 3 1/2
 Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible None
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Larger valves. Smaller cocks
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line Above
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes
 How are they protected _____
 What pipes are carried through the bunkers _____
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
 Dates of examination of completion of fitting of Sea Connections June 10th of Stern Tube 25" Hole Screw shaft and Propeller Shaft
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper grating in Engine room
BOILERS, &c.—(Letter for record _____) Manufacturers of Steel North Bros. 11th Beadmore Co. Brighton Patent Steel

Total Heating Surface of Boilers 5400 sq ft Is Forced Draft fitted Yes No. and Description of Boilers Two Single ended
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lb Date of test 16 June 1918 No. of Certificate 360, 185
 Can each boiler be worked separately Yes Area of fire grate in each boiler 63 1/4 sq ft No. and Description of Safety Valves to
 each boiler 2 Spring loaded Area of each valve 3" dia Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 12" Mean dia. of boilers 15'-0" Length 12'-0" Material of shell plates Steel
 Thickness 1/4" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR
 long. seams TRDBS Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9 x 4 1/2 Lap of plates or width of butt straps 19 1/2 x 1 5/8
 Per centages of strength of longitudinal joint 80-25 Working pressure of shell by rules 188 lbs Size of manhole in shell 12" x 16"
 plate 80-41 Size of compensating ring 2'-10" x 3'-2" x 1 1/2" No. and Description of Furnaces in each boiler 3 Brighton Material Steel Outside diameter 48 1/4"
 Length of plain part top Thickness of plates bottom 1 1/2" Description of longitudinal joint weld No. of strengthening rings _____
 Working pressure of furnace by the rules 199 lbs Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 7/8" Top 7/8" Bottom 7/8"
 Pitch of stays to ditto: Sides 8 x 8 1/2" Back 8 1/2 x 8 1/2" Top 9 x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 187 lbs
 Material of stays Steel Diameter at smallest part 1 7/8" Area supported by each stay 8 1/2 x 8 1/2" Working pressure by rules 187 lbs End plates in steam space
 Material Steel Thickness 1 1/32" Pitch of stays 18 x 20 How are stays secured double nut washers Working pressure by rules 194 Material of stays Steel
 Diameter at smallest part 7 5/8" Area supported by each stay 18 x 20 Working pressure by rules 216 Material of Front plates at bottom Steel
 Thickness 3/4" Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays 13 3/4" Working pressure of plate by rules 180 lbs
 Diameter of tubes 3" Pitch of tubes 1 1/8 x 1 1/4" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays 9 1/2"
 Pitch across wide water spaces 13 1/4" Working pressures by rules 180 lbs Girders to Chamber tops: Material Steel Depth and
 thickness of girder at centre 9 1/2 x 7 1/2 Length as per rule 34" Distance apart 9" Number and pitch of stays in each 3 @ 8"
 Working pressure by rules 212 lbs Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked
 separately _____ Diameter _____ Length _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet
 holes _____ Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____
 If stiffened with rings _____ Distance between rings _____ Working pressure by rules _____ End plates: Thickness _____ How stayed _____
 Working pressure of end plates _____ Area of safety valves to superheater _____ Are they fitted with easing gear _____

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