

REPORT ON MACHINERY.

No. 34810.

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of writing Report 19 When handed in at Local Office 19 Port of Glasgow.
 in Survey held at Glasgow. Date, First Survey 16/1/15 Last Survey 6/2/15 19
 Book. S.S. PARKLANDS ex Marie Glaeser (Number of Visits 9)
 on the Spence-14 Built at Rostock By whom built akt. Ges. Heptan Tons { Gross 1317
 ster Rostock By whom made akt. Ges. Heptan Net 813
 gines made at Rostock when made 1908
 ilers made at ? By whom made ? when made 1908
 gistered Horse Power 132 Owners J.W. Baird & Co Port belonging to W. Hartlepool.
 m. Horse Power as per Section 28 132 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted Yes.

GINES, &c.—Description of Engines

Triple expansion No. of Cylinders 3 No. of Cranks 3
 a. of Cylinders 16 3/8 25 7/8 41 1/4 Length of Stroke 3 1/2 Revs. per minute 100 Dia. of Screw shaft 9 1/2 as per rule 9 1/2 Material of screw shaft Steel
 as fitted 9 1/2

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
 the propeller boss Yes If the liner is in more than one length are the joints burned Yes 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 Yes If two

ers are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 39
 as per rule 8 1/2 Dia. of Crank shaft journals 8 1/2 as per rule 8 1/2 Dia. of Crank pin 8 1/2 Size of Crank webs 22 x 5 1/2 Dia. of thrust shaft under
 as fitted 8 1/2

ers 8 1/2 Dia. of screw 12 1/2 Pitch of Screw 11-2 No. of Blades 4 State whether moveable no Total surface 170 1/2
 of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 17 1/2 Can one be overhauled while the other is at work Yes Thrust shaft 3/16 and size of Suctions connected to both Bilge and Donkey pumps
 of Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 17 1/2 Can one be overhauled while the other is at work Yes 170 1/2
 of Donkey Engines 2 Sizes of Pumps 7 1/2 x 6 x 9 x 4 x 2 1/2 x 4 x 2 1/2 In Holds, &c. each side in each hold 2 1/2

Engine Room 3-2 1/2 Bilge suction Sea 2, Forward Well 2 1/2 In Holds, &c. each side in each hold 2 1/2
 of Bilge Injections 1 sizes 3/8 Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size Yes-2 1/2
 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
 all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves & Cocks
 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
 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
 at pipes are carried through the bunkers none How are they protected Yes

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
 es of examination of completion of fitting of Sea Connections 12/15 of Stern Tube 1/2/15 Screw shaft and Propeller 1/2/15
 he Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top platform

ERS, &c.—(Letter for record S.) Manufacturers of Steel

ul Heating Surface of Boilers 2378 1/2 Is Forced Draft fitted no No. and Description of Boilers 2 Single ended
 rking Pressure 185 lbs Tested by hydraulic pressure to 200 Date of test 1/2/15 No. of Certificate ✓
 each boiler be worked separately Yes Area of fire grate in each boiler 65 1/2 No. and Description of Safety Valves to ✓
 boiler 2 Direct Spring Area of each valve 4 9/10 Pressure to which they are adjusted 190 lbs Are they fitted with easing gear Yes
 llest distance between boilers or uptakes and bunkers or woodwork 10 Mean dia. of boilers 11 1/2 Length 9 1/2 Material of shell plates Steel
 kness 1 1/2 Range of tensile strength Are the shell plates welded or flanged no Descrip. of riveting: cir. seams lap 20
 seams the shop Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 1 1/4 Lap of plates or width of butt straps outside 13
 centages of strength of longitudinal joint 90 1/2 Working pressure of shell by rules 200 Size of manhole in shell 16 x 12
 e of compensating ring 28 x 32 x 1 1/2 No. and Description of Furnaces in each boiler 2 Morrison Material Steel Outside diameter 3 1/2
 ngth of plain part top 1 Thickness of plates bottom 5 1/2 Description of longitudinal joint weld No. of strengthening rings ✓
 orking pressure of furnace by the rules 231 Combustion chamber plates: Material Steel Thickness: Sides 3/32 Back 5/8 Top 3/32 Bottom 1/16
 ch of stays to ditto: Sides 7 1/8 x 8 Back 7 1/2 x 7 1/2 Top 7 1/8 x 7 1/8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 234 lbs
 aterial of stays Steel Diameter at smallest part 1 1/4 Area supported by each stay 630 Working pressure by rules 188 lbs End plates in steam space: Steel
 aterial Steel Thickness 1 1/8 Pitch of stays 4 1/2 x 17 How are stays secured the nuts Working pressure by rules 202 lbs Material of stays Steel
 diameter at smallest part 5 1/2 Area supported by each stay 2460 Working pressure by rules 218 lbs Material of Front plates at bottom Steel
 thickness 1 1/2 Material of Lower back plate Steel Thickness 1 1/2 Greatest pitch of stays 14 1/2 x 7 1/2 Working pressure of plate by rules 301 lbs
 diameter of tubes 3 1/4 Pitch of tubes 4 3/4 x 4 3/4 Material of tube plates Steel Thickness: Front 1 1/2 Back 7/8 Mean pitch of stays 8 1/2
 tch across wide water spaces 14 1/2 Working pressures by rules 366 lbs Girders to Chamber tops: Material Steel Depth and 2-7 1/4
 ckness of girder at centre 7 1/2 x 1 1/2 Length as per rule 24 3/4 Distance apart 7 1/8 Number and pitch of stays in each 2-7 1/4
 orking pressure by rules 246 lbs Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
 arately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

orking pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

VERTICAL DONKEY BOILER—

Manufacturers of Steel

No.	Description	When made	Where fixed
Made at	By whom made	No. of Certificate	Fire grate area
Working pressure	tested by hydraulic pressure to	Date of test	Date of adjustment
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted
If fitted with easing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler	Length
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey

SPARE GEAR. State the articles supplied:—

Two each top & bottom end & main bearing
one set coupling bolts all with nuts, a set of feed & bilge pump
spare valves for donkey pumps, piston rings for each main cylinder
bolts & nuts & iron of various sizes, propeller screw shaft, etc.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 1/2/15 Slides 27/4/15 Covers 27/4/15 Pistons 27/4/15 Rods 27/4/15
Connecting rods 27/4/15 Crank shaft 27/4/15 Thrust shaft 27/4/15 Tunnel shafts 27/4/15 Screw shaft 1/2/15 Propeller 1/2/15
Stern tube 1/2/15 Steam pipes tested 27/28/15 Engine and boiler seatings 27/4/15 Engines holding down bolts 27/4/15
Completion of pumping arrangements 6/2/15 Boilers fixed 27/4/15 Engines tried under steam 6/2/15
Main boiler safety valves adjusted 6/2/15 Thickness of adjusting washers all 4 accept for aft 5/16
Material of Crank shaft Steel Identification Mark on Do. Material of Thrust shaft Steel Identification Mark on Do.
Material of Tunnel shafts Steel Identification Marks on Do. Material of Screw shafts Steel Identification Marks on Do.
Material of Steam Pipes Solid drawn Copper. Test pressure 380 lbs.

General Remarks

(State quality of workmanship, opinions as to class, &c.) The engines & Boilers of vessel have been examined throughout & found in good condition, the sizes of the shafting & seatings of the engines verified & the case is eligible in my opinion for the notation L.M.C. 2.15 with records of L.S.A. 4cf. 185 lbs. H.S. 2378. G.S. 65 1324HP. Screw shaft seen 2.15. This vessel was previously classed with the German Lloyd. The condenser was examined & tested. The steering engine & windlass examined.

The amount of Entry Fee .. £

Special .. £

Donkey Boiler Fee .. £

Travelling Expenses (if any) £

Committee's Minute

Assigned

Deferred for completion of hull survey.

When applied for,

When received,

GLASGOW

9-FEB-1915

Engineer Surveyor to Lloyd's Register of British & Foreign Ships

FRI. FEB. 26. 1915

FRI. MAY. 7-1915

FRI. AUG. 27. 1915

TUE. AUG. 31. 1915

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