

REPORT ON MACHINERY.

No. 55378

Port of Newcastle

Received at London Office **THUR 17 SEP 1908**

Date, first Survey 11 Sept 04 Last Survey 5th Sep 1908

No. in Survey held at Newcastle

Reg. Book. on the 1/5 Roumanian

Tons Gross 4906

Net 3089

When built 1908

Master Claridge Built at Newcastle By whom built Armstrong Whitworth & Co

Engines made at Newcastle By whom made Wallis & Stearns when made 1908

Boilers made at " By whom made " when made 1908

Registered Horse Power " Owners Lane & Macandrew Port belonging to London

Nom. Horse Power as per Section 28 425 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines In C.P.M.

Dia. of Cylinders 26 1/2 44 72 Length of Stroke 48 Revs. per minute 64 Dia. of Screw shaft as per rule 14 1/2 Material of screw shaft S

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 in 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 liners are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 5' 5"

Dia. of Tunnel shaft as per rule 13 1/2 Dia. of Crank shaft journals as per rule 10 1/2 Dia. of Crank pin 14 1/2 Size of Crank webs 29 1/2 x 4 1/2 Dia. of thrust shaft under collars 14 1/4 Dia. of screw 18 1/2 Pitch of Screw 17 1/2 No. of Blades 4 State whether moveable no Total surface 102 1/2

No. of Feed pumps 2 Diameter of ditto 9 1/2 x 7 Stroke 18 Can one be overhauled while the other is at work yes

No. of Bilge pumps 2 Diameter of ditto 4 1/2 Stroke 24 Can one be overhauled while the other is at work yes

No. of Donkey Engines 2 Sizes of Pumps 6 1/2 x 4 x 6, 7 1/2 x 4 1/2 x 10 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room 3 of 3 1/2 In Holds, &c. two 3 1/2

No. of Bilge Injections 1 sizes 4" Connected to condenser, or to circulating pump C.P. 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 yes

Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both

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

What pipes are carried through the bunkers none How are they protected yes

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 13 July of Stern Tube 13 July Screw shaft and Propeller 13 July

Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door no worked from bulk ways

BOILERS, &c.—(Letter for record S.) Manufacturers of Steel Spencer & Sons Ltd.

Total Heating Surface of Boilers 7050 Is Forced Draft fitted no No. and Description of Boilers 3, S.G.

Working Pressure 180 lb Tested by hydraulic pressure to 360 Date of test 26/12/04 No. of Certificate 4628

Can each boiler be worked separately yes Area of fire grate in each boiler 63 1/2 No. and Description of Safety Valves to each boiler 2 Spring Area of each valve 7 1/2 Pressure to which they are adjusted 185 Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 2 feet Mean dia. of boilers 14 10 1/16 Length 12 1/2 Material of shell plates S

Thickness 1 1/2 Range of tensile strength 29-33 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams 2.7 Lap

long. seams 2 butt S.G. Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 8 7/8 Lap of plates on width of butt straps 18 7/8

Per centages of strength of longitudinal joint rivets 84-25 Working pressure of shell by rules 180 Size of manhole in shell 16 x 12

Size of compensating ring McNeil No. and Description of Furnaces in each boiler 3 Monson's Material S Outside diameter 3'-10 1/2"

Length of plain part top 7 1/2 bottom 5 3/2 Thickness of plates crown 7 1/2 bottom 5 3/2 Description of longitudinal joint weld No. of strengthening rings —

Working pressure of furnace by the rules 191 Combustion chamber plates: Material S Thickness: Sides 3/2 Back 3/2 Top 2 1/2 Bottom 1"

Pitch of stays to ditto: Sides 9 1/2 x 8 3/8 Back 10 x 8 Top 9 1/2 x 8 3/8 If stays are fitted with nuts or riveted heads nut Working pressure by rules 182

Material of stays S Diameter at smallest part 2.03 Area supported by each stay 80 Working pressure by rules 228 End plates in steam space: Material S Thickness 1 3/2 Pitch of stays 20 1/2 x 20 How are stays secured nut Working pressure by rules 188 Material of stays Steel

Diameter at smallest part 7 1/2 Area supported by each stay 405 Working pressure by rules 188 Material of Front plates at bottom Steel

Thickness 1" Material of Lower back plate S Thickness 7/8 Greatest pitch of stays 13 3/4 Working pressure of plate by rules 209 1/2

Diameter of tubes 3" Pitch of tubes 44 x 44 Material of tube plates S Thickness: Front 1" Back 3/4 Mean pitch of stays 8 1/2

Pitch across wide water spaces 14 Working pressures by rules 182 Girders to Chamber tops: Material S Depth and thickness of girder at centre 10 3/4 x 1 1/2 Length as per rule 39 3/4 Distance apart 8 7/8 Number and pitch of stays in each 3 of 9 1/2

Working pressure by rules 182 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked separately yes Description of longitudinal joint — Diam. of rivet holes —

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 —



