

REPORT ON MACHINERY.

No. 55378.

Port of *Newcastle*

Received at London Office

THUR 17 SEP 1908

No. in Survey held at *Newcastle*
Reg. Book. *55* on the *Roumanian*Date, first Survey *11 Sept 04*Last Survey *5th Sep 1908*(Number of Visits *18*)Master *Claridge* Built at *Newcastle* By whom built *Armstrong Whitworth & Co* Tons Gross *4906*Engines made at *Newcastle* By whom made *Wallis & Martin* 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.*No. of Cylinders *3* No. of Cranks *3*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 *13 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 *14' 6"* No. of Blades *4* State whether moveable *no* Total surface *102 sq ft*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" x 10"* No. and size of Suctions connected to both Bilge and Donkey pumpsIn 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 *bunk ways*BOILERS, &c.—(Letter for record *S.*) Manufacturers of Steel *Spencer & Sons Ltd.*Total Heating Surface of Boilers *7050 sq ft* Is Forced Draft fitted *no* No. and Description of Boilers *3, S.E.*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 sq ft* 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 1/2"* Length *12 ft* 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 *7-8 lb*long. seams *8 lb* 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"* Thickness of plates crown *7 1/2"* Description of longitudinal joint *weld* No. of strengthening rings *1*Working pressure of furnace by the rules *191* Combustion chamber plates: Material *S* Thickness: Sides *3/2"* Back *3/2"* Top *3/2"* 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 1/2"* 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 12"* 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 *normal* Can the superheater be shut off and the boiler worked separately *yes* Description of longitudinal joint *"* Diam. of rivet holes *"* 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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VERTICAL DONKEY BOILER—

Manufacturers of Steel

No. Description When made Where fixed
 Made at By whom made
 Working pressure tested by hydraulic pressure to Date of test No. of Certificate Fire grate area Description of Safety
 Valves No. of Safety Valves Area of each Pressure to which they are adjusted Date of adjustment
 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 Rivets
 Dia. of rivet holes Whether punched or drilled Pitch of rivets Lap of plating Per centage of strength of joint Plates
 Working pressure of shell by rules Thickness of shell crown plates Radius of do. No. of stays to do. Dia. of stays
 Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates Description of joint
 Working pressure of furnace by rules Thickness of furnace crown plates Stayed by
 Diameter of uptake Thickness of uptake plates Thickness of water tubes Dates of survey

SPARE GEAR. State the articles supplied:— 1 set connecting rod bolts nuts; two main bearing bolts & nuts, 1 set coupling bolts & nuts, 1 set of feed (boiler) & bilge pump valves, propeller shaft & propeller.

The foregoing is a correct description,

FOR THE WALLSEND SHIPBUILDING & ENGINEERING CO. LIMITED. Manufacturer.

Dates of Survey while building During progress of work in shops— 1907 Sep. 11, 18, 23, 26, 30. Oct. 3, 11, 16, 22, 24, 26, 29, 30, 31. Nov. 4, 11, 13, 19, 25. Dec. 3, 4, 17, 19, 24, 31. 1908 Jan. 9, 15, 17, 30.
 During erection on board vessel— Feb. 11, 17, 20, 26. Mar. 3. May 11, 21. June 5, 15. July 7, 13, 29, 30. Aug. 3, 7, 8, 27, 28. Sep. 11.
 Total No. of visits 48.

Is the approved plan of main boiler forwarded herewith *do.*

Dates of Examination of principal parts—Cylinders 22.10.07 Slides 22.10.07 Covers 22.10.07 Pistons 29.10.07 Rods 29.10.07
 Connecting rods 29.10.07 Crank shaft 29.10.07 Thrust shaft 29.10.07 Tunnel shafts 29.10.07 Screw shaft 31.11.07 Propeller 17.12.07
 Stern tube 17.12.07 Steam pipes tested 16.12.07 Engine and boiler seatings 30.2.08 Engines holding down bolts 29.8.19.
 Completion of pumping arrangements 28.9.07 Boilers fixed 29.8.08 Engines tried under steam 28.9.08
 Main boiler safety valves adjusted 28.9.07 Thickness of adjusting washers *P.B. 3/8" S.C.B. 3/8" S.B. 3/8" S.T.*
 Material of Crank shaft *S.* Identification Mark on Do. *R.T.F.* Material of Thrust shaft *S.* Identification Mark on Do. *R.T.F.*
 Material of Tunnel shafts *S.* Identification Marks on Do. *R.T.F.* Material of Screw shafts *S.* Identification Marks on Do. *R.T.F.*
 Material of Steam Pipes *H.I.* Test pressure 540 lb.

General Remarks (State quality of workmanship, opinions as to class, &c. *Machinery & boilers built under Special Survey. Materials & workmanship good. Engines & boilers examined under steam & found satisfactory. In my opinion this vessel is eligible for the record of L.M.C. 9.08*

It is submitted that this vessel is eligible for THE RECORD. *L.M.C. 9.08. ELEC. LIGHT.*

17.9.08

J. Y. Findlay
 17.9.08

The amount of Entry Fee. £ 3 : : : When applied for, 16 SEP 1908
 Special .. £ 41 : 5 : :
 Donkey Boiler Fee .. £ : : : When received, 19.9.08
 Travelling Expenses (if any) £ : : : 19.9.08

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

FRI. 18 SEP 1908

Assigned

MACHINERY CERTIFICATE WRITTEN.

+ L.M.C. 9.08 elec. light.



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Lloyd's Register Foundation

VE

These particular

Signal Letters (if

Official Number

125423

No., Date, and Port

Whether British or Foreign Built.

British

Number of Decks

Number of Masts

Rigged ...

Stern ...

Build ...

Galleries ...

Head ...

Framework and vessel ...

Number of Bulk

Number of water

and their cap

Total to quarter at side amid

No. of sets of Engines.

One

Triple

no. of shafts

One

Iron

Press

Under Tonnage

Closed-in space

Space or

Poop

Forecastle

Round H

Other cl

side

Deck

Boiler

Spaces for

Section

1894, if

Deduction

No. of C

Name, I

Rel

Note: J

a

Date

W B S

Howcastle-on-Tyne

Certificate (if required) to be sent to

(The Surveyors are requested not to write on or below the space for Committee's Minute.)