

REPORT ON MACHINERY.

No. 51558.

Port of Newcastle

Received at London Office SAT. 8 SEP 1906

No. in Survey held at Newcastle

Date, first Survey 13th December 1905 Last Survey 4th Sep 1906

Reg. Book.

15 on the

595 Hermoine

(Number of Visits 25)

Tons { Gross 4510

Net 2901

Master J. A. House

Built at Newcastle

By whom built Armstrong Whitworth

When built 1906

Engines made at Newcastle

By whom made Walsend Slip. & Eng. Co. No. 625

when made 1906

Boilers made at do

By whom made Palmer & Co. Job No. 412

when made 1906

Registered Horse Power

Owners Messrs B. J. Bowring & Co. Ltd.

Port belonging to Liverpool

Nom. Horse Power as per Section 28 410

Is Refrigerating Machinery fitted for cargo purposes no

Is Electric Light fitted yes

ENGINES, &c.—Description of Engines

In E.P.D.

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 25.42

Length of Stroke 48

Revs. per minute 67

Dia. of Screw shaft 15.5

Material of screw shaft as per rule

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 no

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 54

Dia. of Tunnel shaft 13.2

Dia. of Crank shaft journals 13.2

Dia. of Crank pin 13.2

Size of Crank webs 24 x 9

Dia. of thrust shaft under collars 13.2

No. of Feed pumps two

Diameter of ditto 9.2 x 7

Stroke 18

Can one be overhauled while the other is at work yes

Total surface 102 sq

No. of Bilge pumps 2

Diameter of ditto 4.2

Stroke 24

Can one be overhauled while the other is at work yes

yes

No. of Donkey Engines 2

Sizes of Pumps 7 x 4.2 x 7

6 x 7.2 x 6

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room four of 3.2

in hold. 1 of 3" in copperdau.

In Holds, &c. 1 of 3" in peak. 2 of 2.2

No. of Bilge Injections 1

sizes 7

Connected to condenser, or to circulating pump no

Is a separate Donkey Suction fitted in Engine room & size yes 8.2

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 no

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 6/7

of Stern Tube June 06

Screw shaft and Propeller June 06

Is the Screw Shaft Tunnel watertight none

Is it fitted with a watertight door yes

worked from yes

BOILERS, &c.—(Letter for record R.)

Manufacturers of Steel J. Spence & Sons

Total Heating Surface of Boilers 6870 sq

Is Forced Draft fitted no

No. and Description of Boilers three, single-ended

Working Pressure 180 lbs

Tested by hydraulic pressure to 360 lbs

Date of test 25/7/06

No. of Certificate 7276

Can each boiler be worked separately yes

Area of fire grate in each boiler 65 sq

No. and Description of Safety Valves to each boiler FB 2 of 3" AB 2 of 3.2

Area of each valve 7.07 x 9.6

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 20"

Mean dia. of boilers 15" 4.2

Length 10' 6"

Material of shell plates steel

Thickness 1 13/32"

Range of tensile strength 28-32

Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams S. Lap

long. seams S. B. S. Y. Riv.

Diameter of rivet holes in long. seams 1 15/32"

Pitch of rivets 10"

Lap of plates or width of butt straps 2 1/2"

Per centages of strength of longitudinal joint

Working pressure of shell by rules 198 lbs

Size of manhole in shell 8" x 16" x 12"

Size of compensating ring M. heels

No. and Description of Furnaces in each boiler 3- Brighton's Material Steel

Outside diameter 4' 0"

Length of plain part top 19 1/32"

Description of longitudinal joint Welded

No. of strengthening rings yes

Working pressure of furnace by the rules 196 lbs

Combustion chamber plates: Material Steel

Thickness: Sides 2 1/32"

Back 5/8"

Top 2 1/32"

Bottom 1"

Pitch of stays to ditto: Sides 7 3/4" x 7"

Back 7 3/4" x 8"

Top 7 1/2" x 7"

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 217 lbs

Material of stays Iron

Diameter at smallest part 2.03"

Area supported by each stay 62 sq

Working pressure by rules 246 lbs

End plates in steam space:

Material Steel

Thickness 1 1/8"

Pitch of stays 17 1/4" x 15 3/4"

How are stays secured S. H.

Working pressure by rules 208 lbs

Diameter at smallest part 6.33"

Area supported by each stay 272 sq

Working pressure by rules 232 lbs

Material of Front plates at bottom Steel

Thickness 1"

Material of Lower back plate Steel

Thickness 15/16"

Greatest pitch of stays 14 1/2"

Working pressure of plate by rules 222 lbs

Diameter of tubes 3"

Pitch of tubes 4 1/4" x 4 1/4"

Material of tube plates Steel

Thickness: Front 1"

Back 3/4"

Mean pitch of stays 8 1/2"

Pitch across wide water spaces 13 1/2"

Working pressures by rules 226 lbs

Girders to Chamber tops: Material Steel

Depth and thickness of girder at centre 7 1/2" x 1 1/2"

Length as per rule 30"

Distance apart 7 1/2"

Number and pitch of stays in each 3-7"

Working pressure by rules 180 lbs

Superheater or Steam chest; how connected to boiler none

Can the superheater be shut off and the boiler worked separately yes

Diameter yes

Length yes

Thickness of shell plates yes

Material yes

Description of longitudinal joint yes

Diam. of rivet holes yes

Pitch of rivets yes

Working pressure of shell by rules yes

Diameter of flue yes

Material of flue plates yes

Thickness yes

If stiffened with rings yes

Distance between rings yes

Working pressure by rules yes

End plates: Thickness yes

How stayed yes

Working pressure of end plates yes

Area of safety valves to superheater yes

Are they fitted with easing gear yes

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