

REPORT ON MACHINERY.

No. 5915

Port of

Belfast

Received at London Office

JUN 2 1905

No. in Survey held at

Belfast

Date, first Survey

Nov 2, 1904

Last Survey

May 25, 1905

Reg. Book.

on the

S.S. S. Bologna

(Number of Visits)

48

Gross

4603

Net

1905

Master

Built at

Belfast

By whom built

Harland & Wolff L.

When built

1905

Engines made at

Belfast

By whom made

Harland & Wolff L.

when made

1905

Boilers made at

By whom made

when made

Registered Horse Power

Owners Italia Società di Navigazione

Port belonging to

Genoa

Nom. Horse Power as per Section 28

505

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines

Twin Screw Triple Expansion

No. of Cylinders

6

No. of Cranks

6

Dia. of Cylinders

19 1/2"-33"-55 1/2"

Length of Stroke

39

Revs. per minute

83

Dia. of Screw shaft

11 1/2"

Material of

S. Steel

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

51"

Dia. of Tunnel shaft

10 1/2"

Dia. of Crank shaft journals

11 1/2"

Dia. of Crank pin

12"

Size of Crank webs

16 x 8"

Dia. of thrust shaft under

collars

11 1/2"

Dia. of screw

13"-9"

Pitch of screw

1 1/4"-6"

No. of Feed pumps

2

Diameter of ditto

3 1/2"

Stroke

20"

Can one be overhauled while the other is at work

Yes

No. of Bilge pumps

1

Diameter of ditto

4 1/2"

Stroke

20"

Can one be overhauled while the other is at work

Yes

No. of Donkey Engines

1

Diameter of ditto

4 1/2"

Stroke

20"

Can one be overhauled while the other is at work

Yes

In Engine Room

4-3 1/2"

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

8-3 1/2"

2-3"

No. of bilge injections

2

sizes

7"

Connected to condenser, or to circulating pump

Yes

Is a separate donkey suction fitted in Engine room

Yes

size

2-4"

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

Fore hold suction

How are they protected

Wood casings

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

When were stern tube, propeller, screw shaft, and all connections examined in dry dock

Before launching

Is the screw shaft tunnel watertight

Stated to be

Is it fitted with a watertight door

Yes

worked from

P. R. top platform

BOILERS, &c.—

(Letter for record)

Total Heating Surface of Boilers

6900 sq ft

Is forced draft fitted

Yes

No. and Description of Boilers

2-Cylind

Double End

Working Pressure

200 lbs

Tested by hydraulic pressure to

400 lbs

Date of test

14-3-05

Can each boiler be worked separately

Yes

Area of fire grate in each boiler

82 sq ft

No. and Description of safety valves to

each boiler

2-Donkey Springs

Pressure to which they are adjusted

200 lbs

Are they fitted with easing gear

Yes

Smallest distance between boilers

on uptake and bunkers

on woodwork

18"

Mean dia. of boilers

13'-0"

Length

20'-4"

Material of shell plates

Steel

Thickness

3/32"

Range of tensile strength

29-32

Are they welded or flanged

No

Descrip. of riveting: cir. seams

Lap Dr Y

long. seam

Butt Joints

Diameter of rivet holes in long. seams

1 1/2"

Pitch of rivets

9"

Lap of plates or width of butt straps

21"

Per centages of strength of longitudinal joint

rivets

91.6

Working pressure of shell by rules

227 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring

No. 1

No. and Description of Furnaces in each boiler

No. 1

Material

Steel

Outside diameter

48 1/2"

Length of plain part

top

Thickness of plates

crown

3/16"

Description of longitudinal joint

Weld

No. of strengthening rings

4

on

bottom

Working pressure of furnace by the rules

234 lbs

Combustion chamber plates: Material

Steel

Thickness: Sides

3/16"

Back

1"

Top

3/16"

Bottom

3/16"

Pitch of stays to ditto: Sides

8 x 7"

Back

8 x 7"

If stays are fitted with nuts or riveted heads

Nuts inside

Working pressure by rules

272 lbs

End plates in steam space:

Material of stays

Steel

Diameter at smallest part

1 1/2"

Area supported by

each stay

58 sq in

Working pressure by rules

260 lbs

Material of stays

Steel

Material

Steel

Thickness

1 1/2"

Pitch of stays

16 x 16"

How are stays secured

Nuts inside

Working pressure by rules

232 lbs

Material of Front plates at bottom

Steel

Diameter at smallest part

2 1/2"

Area supported by

each stay

256 sq in

Working pressure by rules

232 lbs

Material of Front plates at bottom

Steel

Thickness

1/2"

Material of Lower back plate

Steel

Thickness

1/2"

Greatest pitch of stays

1"

Working pressure of plate by rules

272 lbs

Mean pitch of stays

8 x 8"

Diameter of tubes

2 1/4"

Pitch of tubes

4 x 4"

Material of tube plates

Steel

Thickness: Front

1/2"

Back

1"

Girders to Chamber tops: Material

Iron

Pitch across wide water spaces

14"

Working pressures by rules

360 lbs

Girders to Chamber tops: Material

Iron

Depth and

thickness of girder at centre

1 3/4"

Length as per rule

50"

Distance apart

8"

Working pressure by rules

241 lbs

Superheater or Steam chest; how connected to boiler

Yes

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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