

REPORT ON MACHINERY.

No. 15961

Port of Hull

FRI. 20 MAY 1904

No. in Survey held at
ok. 1894-5Date, first Survey Feb. 18thLast Survey May 17th 1904.

(Number of Visits 20)

on the

Iron screw steamer "Wall" late "Lissa"

(No. 727)

Tons

Gross

Net

Built at London

By whom built London Dry Dock Co

When built 1885

made at

Hull

By whom made

Chas. & Colman, Ltd.

when made 1889

made at

Hull

By whom made

Chas. & Colman, Ltd.

when made 1904

red Horse Power

Owners Independent Trading Co

Port belonging to

Power as per Section 28

Is Refrigerating Machinery fitted

Is Electric Light fitted

I, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Diameter

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

as fitted

Material of

screw shaft

shaft fitted with a continuous liner the whole length of the stern tube

Is the after end of the liner made water tight

eller boss

If the liner is in more than one length are the joints burned

If the liner does not fit tightly at the part

bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

If two

tted, is the shaft lapped or protected between the liners

Length of stern bush

el shaft

Dia. of Crank shaft journals

as per rule

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

Dia. of screw

Pitch of screw

No. of blades

State whether moveable

Total surface

pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

key Engines

Sizes of Pumps

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

Room

In Holds, &c.

injections

sizes

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size

bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

nections with the sea direct on the skin of the ship

Are they Valves or Cocks

red sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the discharge pipes above or below the deep water line

sh fitted with a discharge valve always accessible on the plating of the vessel

Are the blow off cocks fitted with a spigot and brass covering plate

are carried through the bunkers

How are they protected

oes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times

lge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges

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

Is the screw shaft tunnel watertight

l with a watertight door

worked from

RS, &c.—

(Letter for record S)

Total Heating Surface of Boilers

810 sq ft

Is forced draft fitted

Description of Boilers

One Cylindrical

Working Pressure

160 lb.

Tested by hydraulic pressure to 220 lb.

est

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of safety valves to

r

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

10' 6"

Length

9' 4 1/2"

Material of shell plates

Range of tensile strength

29,32

Are they welded or flanged

Descrip. of riveting: cir. seams

all weld

long. seams

all chip

of rivet holes in long. seams

14/16"

Pitch of rivets

6/16"

Lap of plates or width of butt straps

14/16"

ges of strength of longitudinal joint

rivets

29,97

Working pressure of shell by rules

168 lb.

Size of manhole in shell

16" x 12"

compensating ring

7' x 14/16"

No. and Description of Furnaces in each boiler

two

Material

Hull

Outside diameter

36"

plain part

top

15 1/2"

Thickness of plates

crown

9/16"

Description of longitudinal joint

welded

No. of strengthening rings

4

pressure of furnace by the rules

178 lb.

Combustion chamber plates: Material

Hull

Thickness: Sides

2 1/32"

Back

10 1/16"

Top

10 1/16"

Bottom

stays to ditto: Sides

9"

Back

9"

Top

9' 7 1/2"

If stays are fitted with nuts or riveted heads

Hull

Working pressure by rules

167 lb.

l of stays

Hull

Diameter at smallest part

1 1/2"

Area supported by each stay

9' x 9'

Working pressure by rules

166 lb.

End plates in steam space:

l of

Hull

Thickness

15 1/16"

Pitch of stays

15'

How are stays secured

all nuts

Working pressure by rules

185 lb.

Material of stays

Hull

r at smallest part

27 1/16"

Area supported by each stay

15' x 15'

Working pressure by rules

211 lb.

Material of Front plates at bottom

Hull

ss

12 1/16"

Material of Lower back plate

Hull

Thickness

12 1/16"

Greatest pitch of stays

12'

Working pressure of plate by rules

160 lb.

r of tubes

3 1/2"

Pitch of tubes

4 5/16"

Material of tube plates

Hull

Thickness: Front

13 1/16"

Back

13 1/16"

Mean pitch of stays

9 1/2"

across wide water spaces

14'

Working pressures by rules

160 lb.

Girders to Chamber tops: Material

Hull

Depth and

Distance

7' x 14 1/2"

Length as per rule

28 1/2"

Distance apart

g pressure by rules

185 lb.

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

ly

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

diffened 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

Hull

Hull

Hull

Hull

Hull

Hull

Hull

working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Hull

Hull

Hull

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HULL 425-0064

DONKEY BOILER— No. Description
Made at By whom made When made Where fixed
Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves
No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from
enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness
strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch
Lap of plating Per centage of strength of joint Rivets Thickness of shell crown plates Radius of do. No. of Stays
Dia. of stays. Diameter of furnace Top Bottom Length of furnace Thickness of furnace plates
joint Thickness of furnace crown plates Stayed by Working pressure of shell by
Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Charles D. Holmes Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1904 - Feb 18. 23. Mar 1. 4. 8. 10. 15. 17. 22. 25. 28. 31. Apr 7. 12. 16. 19. 26. May 7. 11. }
During erection on board vessel - - }
Total No. of visits 10

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

General Remarks (State quality of workmanship, opinions as to class, &c. *Workmanship good.*)

This boiler has been constructed under special in accordance with the approved Short's Patent and tested by hydraulic pressure to 320 lbs per square inch and found tight and sound at that pressure.

As this boiler is intended for an unclassified vessel. Submitted no further action is necessary.

Bel.
25.5.04

Bel.
25.5.04

The amount of Entry Fee. . . £ ✓ : :
Special £ 3 : 0 :
Donkey Boiler Fee £ ✓ : :
Travelling Expenses (if any) £ ✓ : :
When applied for, 18/5/1904
When received, 31/5/04

James Brown
Engineer Surveyor to Lloyd's Register of British & Foreign Vessels

Committee's Minute

Assigned *Not for classing Committee*

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