

REPORT ON MACHINERY.

No. 25039.

Port of GARDIFF

GARDIFF

Received at London Office

MUN. 12 SEP 1894

Date, first Survey 15th Aug.

Last Survey 27th Aug 1894

Survey held at London

on the Steel Sps "Eastry"

Built at West Hartlepool

By whom built James Withy & Coy

when made 1892

made at Hulllepool

By whom made J. Richardson & Sons

when made 1904

made at Stockton

By whom made Filey Bros.

Port belonging to W. Hartlepool

Registered Horse Power

Owners Imperial Sps Co. Ltd

Horse Power as per Section 28 259.

No. of Cylinders

ENGINES, &c.—

Description of Engines

Diameter of Cylinders

as per rule

Length of Stroke

Revolutions per minute

Diameter of Screw shaft

as per rule

Diameter of Tunnel shaft

as fitted

Diameter of Crank shaft journals

Diameter of Crank pin

Size of Crank webs

Diameter of screw

Pitch of screw

No. of blades

State whether moveable

Total surface

Diameter of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

Diameter of Bilge pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

of Donkey Engines

Sizes of Pumps

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

Engine Room

In Holds, &c.

of bilge injections

sizes

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship

Are they Valves or Cocks

Are they fixed 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

Are they each 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

That pipes are carried through the bunkers

How are they protected

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

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

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

Is the screw shaft tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—

(Letter for record)

Total Heating Surface of Boilers

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of safety valves to

each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted

with casing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean diameter of boilers

Length

Material of shell plates

Thickness

Description of riveting: circum. seams

long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

Thickness of plates

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

End plates in steam space:

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of stays

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of Front plates at bottom

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Working pressure of plate by rules

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Mean pitch of stays

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of Stays in each

Working pressure by rules

Superheater or Steam chest; how connected to boiler

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 casing gear



Lloyd's Register Foundation
LRF-PUN-CCF85-0011

DONKEY BOILER— Description *Vertical 4 cross tube & angled uptake*
 Made at *Stockholm* By whom made *Riley Bros* When made *1904* Where fixed *Stockholm*
 Working pressure *100 lbs* tested by hydraulic pressure to *200 lbs* No. of Certificate *3270* Fire grate area *23* Description of safety valves *Spring direct*
 No. of safety valves *2* Area of each *4* Pressure to which they are adjusted *100 lbs* If fitted with easing gear *yes* If steam from main boilers can enter the donkey boiler *no* Diameter of donkey boiler *7'-0"* Length *14'-0"* Material of shell plates *steel* Thickness *17/32*
 Description of riveting long. seams *Lap. D.R.* Diameter of rivet holes *15/16* Whether punched or drilled *drilled* Pitch of rivets *3/8*
 Lap of plating *4 3/4* Per centage of strength of joint Rivets *70.4* Thickness of shell crown plates *9/32* Radius of do. *5'-0"* No. of Stays to do. *7*
 Dia. of stays. *1 3/4* Diameter of furnace Top *5'-6"* Bottom *6'-0 1/16"* Length of furnace *5'-4"* Thickness of furnace plates *2 3/32* Description of joint *Lap. D.R.* Thickness of furnace crown plates *11/16* Stayed by *as above* Working pressure of shell by rules *105 lbs*
 Working pressure of furnace by rules *104 lbs* Diameter of uptake *17"* Thickness of uptake plates *1/2"* Thickness of water tubes *3/8"*

SPARE GEAR. State the articles supplied:—
The boiler has been fitted and secured in the stockhold recess of this vessel safety valves blown under steam at the working pressure and found satisfactory
J.P.

The foregoing is a correct description,
 Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c.)
The plan of the donkey boiler is herewith attached.

(The Stowage is to be entered in the Space for Committee's Minute.)
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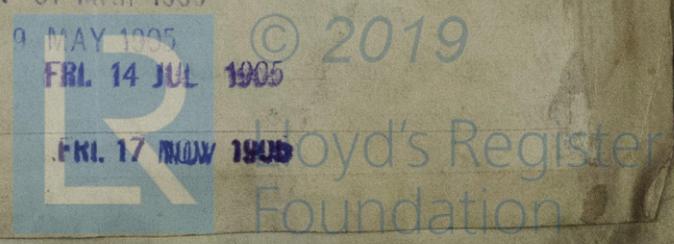
Certificate (if required) to be sent to _____

The amount of Entry Fee..	£	:	:	When applied for,
Special	£	:	:18.....
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:18.....

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

Committee's Minute
 Assigned _____
 TUES. 13 SEP 1904

FRI. 31 MAR 1905
 TUES. 9 MAY 1905
 FRI. 14 JUL 1905



Sewer shaft 1500 Con. Swam. & Altra
 low