

REPORT ON MACHINERY.

No. 25039.

CARDIFF

MUN. 12 SEP 1904

Port of

Received at London Office

Date, first Survey 15th Aug.

Last Survey 27th Aug 1904

Number of Visits (1)

Gross 2998
Net 1924

When built 1892

Survey held at Cardiff

on the Steel S/s "Eastry"

Built at West Hartlepool By whom built James Withy & Coy

when made 1892

By whom made J. Richardson & Sons

when made 1904

By whom made Filey Bros.

Port belonging to W. Hartlepool

Owners Imperial S/s Co. Ltd

Registered Horse Power

Horse Power as per Section 28 259.

ENGINES, &c.—

Description of Engines
Length of Stroke
Revolutions per minute
Diameter of Screw shaft
Diameter of Crank pin
Diameter of Crank shaft journals
Diameter of Crank webs
Pitch of screw
Stroke
No. of blades
State whether moveable
Total surface
Can one be overhauled while the other is at work
Can one be overhauled while the other is at work
No. and size of Suctions connected to both Bilge and Donkey pumps
In Holds, &c.
Is a separate donkey suction fitted in Engine room & size
Are the roses in Engine room always accessible
Are the sluices on Engine room bulkheads always accessible
Are they Valves or Cocks
Are the discharge pipes above or below the deep water line
Are the blow off cocks fitted with a spigot and brass covering plate
How are they protected
That pipes are carried through the bunkers
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
Is the screw shaft tunnel watertight
When were stern tube, propeller, screw shaft, and all connections examined in dry dock
Is it fitted with a watertight door
worked from

BOILERS, &c.—

(Letter for record)
Total Heating Surface of Boilers
Working Pressure
Tested by hydraulic pressure to
No. and Description of safety valves to
No. and Description of Boilers
Area of fire grate in each boiler
Area of each valve
Pressure to which they are adjusted
Are they fitted
Can each boiler be worked separately
Smallest distance between boilers or uptakes and bunkers or woodwork
long. seams
Material of shell plates
Thickness
Description of riveting: circum. seams
Lap of plates or width of butt straps
Pitch of rivets
Size of manhole in shell
Working pressure of shell by rules
Material
Outside diameter
No. and Description of Furnaces in each boiler
Description of longitudinal joint
No. of strengthening rings
Length of plain part
Thickness of plates
Combustion chamber plates: Material
Thickness: Sides
Back
Top
Bottom
Working pressure of furnace by the rules
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
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 easing gear

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* 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 *19/32* 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 15/16"* Length of furnace *5-4"* Thickness of furnace plates *23/32* 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 Stockholm 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.

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.....

Committee's Minute

Assigned

TUES. 13 SEP 1904

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

FRI. 31 MAR 1905

TUES. 9 MAY 1905

FRI. 14 JUL 1905

FRI. 17 NOV 1905

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Lloyd's Register
 Foundation

Sewer shaft new con. examined, & strong

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