

REPORT ON MACHINERY.

No. 11015

Port of

THURS. 15 OCT 1891

No. in Survey held at

Date, first Survey

Received at London Office

Last Survey

(Number of Visits)

Reg. Book.

320 on the

Master

Built at

By whom built

Tons

When built

Engines made at

By whom made

when made

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

ENGINES, &c.

Description of Engines

Diam. of Cylinders

Length of Stroke

Rev. per minute

Point of Cut off, High Pressure

No. of Cylinders

Diameter of Screw shaft

Diam. of Tunnel shaft

Diam. of Crank shaft journals

Diam. of Crank pin

Size of Crank webs

Diameter of screw

Pitch of screw

No. of blades

state whether moveable

total surface

No. of Feed pumps

diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

diameter of ditto

Stroke

Can one be overhauled while the other is at work

Where do they pump from

No. of Donkey Engines

Size of Pumps

Where do they pump from

Are all the bilge suction pipes fitted with roses

Are the roses always accessible

Are the sluices on Engine room bulkheads always accessible

No. of bilge injections

and sizes

Are they connected to condensers or to circulating pump

How are the pumps worked

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 outside of the vessel

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

What pipes are carried through the bunker

How are they protected

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

Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection 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

and fitted with a sluice door

worked from

BOILERS, &c.

No. of Boilers

Description

Material

Letter (for record)

Working Pressure

Tested by hydraulic pressure to

Date of test

Description of superheating apparatus or steam chest

Can each boiler be worked separately

Can the superheater be shut off and the boiler worked separately

No. of square feet of fire grate surface in each boiler

Description of safety valves

No. to each boiler

Area of each valve

Are they fitted with easing gear

No. of safety valves to superheater

area of each valve

Are they fitted with easing gear

Smallest distance between boilers and bunkers or woodwork

Diameter of boilers

Length of boilers

description of riveting of shell, long. seams

shell riveted circum. seam

Thickness of shell plates

Diameter of rivet holes

whether punched or drilled

Drilled

pitch of rivets

Lap of plating

size of manholes in shell

Per centage of strength of longitudinal joint

working pressure of shell by rules

size of manholes in shell

Size of compensating rings

No. of Furnaces in each boiler

Description of Furnaces

Outside diameter

length

thickness of plates

description of joint

if rings are fitted

Greatest length between rings

working pressure of furnace by the rules

combustion chamber plating, thickness, sides

back

top

Pitch of stays to ditto, sides

back

top

if stays are fitted with nuts or riveted heads

working pressure of plating by

rules

plates in steam space, thickness

Pitch of stays to ditto

smallest part

how stays are secured

working pressure by rules

Front plates at bottom, thickness

Back plates, thickness

thickness of tube

Greatest pitch of stays

plates, front

back

how stayed

pitch of stays

width of water spaces

diam. of rivet holes

Diameter of Superheater or Steam chest

length

thickness of plates

description of longitudinal joint

if stiffened with rings

Pitch of rivets

working pressure of shell by rules

diameter of flue

thickness of plates

end plates of superheater, or steam chest; thickness

how stayed

Distance between rings

working pressure by rules

Superheater or steam chest; how connected to boiler

11015 g/s

DONKEY BOILER—

Description

Multitubular

Made at Glasgow by whom made Lindsay Burnett & Co when made 1891 where fixed Strathclyde

Working pressure 160 lbs tested by hydraulic pressure to 160 lbs No. of Certificate 3041 fire grate area 28 sq ft description of safety

valves Direct Spring No. of safety valves 2 area of each 4 sq ft if fitted with easing gear Yes if steam from main boilers can

enter the donkey boiler 2 1/2 diameter of donkey boiler 10 x 6 length 8' 0" description of riveting Lap double

Thickness of shell plates 19/32 diameter of rivet holes 1/16 whether punched or drilled Drilled pitch of rivets 4 1/4" lap of plating 6 1/2"

per centage of strength of joint 100 thickness of end plates 1 1/4" stayed by Bar Stays 2" dia 12" pitch

Diameter of furnace, top 3 1/4" bottom 3 1/4" length of furnace 5' 9" thickness of plates 3/8" description of joint Duplex

Thickness of furnace cover plates 1/16" stayed by Screw Stays 1 1/2" pitch 4 1/4" x 4 1/4" working pressure of shell by rules 80 lbs

Working pressure of furnace by rules 130 lbs diameter of water tubes 1 1/4" thickness of plates 10/16" thickness of water tubes 1/16"

SPARE GEAR. State the articles supplied: Two top & bottom end cranks 2 rod bolts, 1 main bearing bolts, 1 don coupling bolts 2 feet 2 bridge pump valves Propeller with 3 blades complete also shaft, stern bush, length crank shaft air pump rod & bucket, assortment of bolts nuts & springs valves & other parts

The foregoing is a correct description,

Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c.) The new boiler and the tripling of the Engines have been built and completed by the original builders. The Fairfield Coy. The workmanship and materials are of good description and the whole of the machinery is now in good order and safe working condition and eligible in my opinion to be noted in the Register Book

M. C. 10/91

Certificate (if required) to be sent to

The amount of Entry Fee ... £ ... received by me,

Special ... £ 2

Donkey Boiler Fee ... £ 21

(Travelling Expenses, if any, £)

Committee's Minute TUES. 20 OCT 1891

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

TUES. 27 OCT 1891

James Hollison

Clyde District

Lloyd's Register Foundation