

REPORT ON MACHINERY.

Port of *Falmouth*

Received at London Office

23 DEC 91

3581

Survey held at

Falmouth

Date, first Survey *23rd July*

Last Survey *19th December 1891*

ook.

on the

S. S. Planet

(Number of Visits *24*)

Tons *419*

Mills

Built at *Newcastle*

By whom built *C. Mitchell & Co*

When built *1856*

s made at

Kiel

By whom made

Schweffel & Howaldt

when made

1856

made at

Falmouth

By whom made

Mum Cox & Co

when made

1891-12

ered Horse Power

60

Owners

D. Jones

Port belonging to

London

NES, &c.—

tion of Engines

One New Main Boiler Only

er of Cylinders

Length of Stroke

No. of Rev. per minute

Point of Cut off, High Pressure

Low Pressure

er of Screw shaft

Diam. of Tunnel shaft

Diam. of Crank shaft journals

Diam. of Crank pin

size of Crank webs

er of screw

Pitch of screw

No. of blades

state whether moveable

total surface

Feed pumps

diameter of ditto

Stroke

Can one be overhauled while the other is at work

Bilge pumps

diameter of ditto

Stroke

Can one be overhauled while the other is at work

do they pump from

Donkey Engines

Size of Pumps

Where do they pump from

the bilge suction pipes fitted with roses

Are the roses always accessible

Are the sluices on Engine room bulkheads always accessible

bilge injections

and sizes

Are they connected to condenser, or to circulating pump

re the pumps worked

connections with the sea direct on the skin of the ship

Are they Valves or Cocks

ey 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

ey 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

pipes are carried through the bunkers

How are they protected

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

re pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilges

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

screw shaft tunnel watertight

and fitted with a sluice door

worked from

ERS, &c.—

er of Boilers

One

Description

Cylindrical Multitubular

Whether Steel or Iron

Steel

ing Pressure

80 lbs

Tested by hydraulic pressure to

160 lbs

Date of test

21st October 1891

tion of superheating apparatus or steam chest

None fitted

ach boiler be worked separately

☒

Can the superheater be shut off and the boiler worked separately

☒

f square feet of fire grate surface in each boiler

36.72

Description of safety valves

Cox's Lipped Spring

No. to each boiler

2

of each valve

7.06

Are they fitted with easing gear

yes

No. of safety valves to superheater

area of each valve

☒

ey fitted with easing gear

☒

Smallest distance between boilers and bunkers or woodwork

6

Diameter of boilers

11-0"

h of boilers

10-0"

description of riveting of shell long. seams

Lap & double riveted

circum. seams

Lap end seams single riveted

Thickness of shell plates

5/8"

ter of rivet holes

15/16"

whether punched or drilled

Drilled

pitch of rivets

3 3/4"

Lap of plating

6 3/4"

ntage of strength of longitudinal joint

75%

working pressure of shell by rules

81.6

size of manholes in shell

15" x 11"

f compensating rings

2-1" x 2-1" x 9/16"

No. of Furnaces in each boiler

2

le diameter

38

length, top

4-3"

bottom

4-6 3/8"

thickness of plates

3/8"

description of joint

Welded

if rings are fitted

yes

est length between rings

3-10 3/4"

working pressure of furnace by the rules

82

combustion chamber plating, thickness, sides

9/16"

back

15/32"

top

1 1/16"

of stays to ditto, sides

8"

back

8 3/4"

top

8"

If stays are fitted with nuts or riveted heads

Nuts inside

working pressure of plating by

rules

80

end plates in steam space, thickness

1 1/16"

les

84

Diameter of stays at smallest part

1"

working pressure of ditto by rules

80

end plates in steam space, thickness

1 1/16"

working pressure by rules

86

diameter of stays at

smallest part

allest part

1 7/8"

working pressure by rules

84

Front plates at bottom, thickness

9/16"

Back plates, thickness

1/2"

est pitch of stays

9"

working pressure by rules

81

Diameter of tubes

3 1/2"

pitch of tubes

4 3/4"

thickness of tube

6"

ates, front

1 1/16"

back

1 1/16"

how stayed

Stay Tubes

pitch of stays

14-25"

width of water spaces

6"

diam. of rivet holes

1/16"

description of longitudinal joint

Welded

of Acets

☒

working pressure of shell by rules

☒

diameter of flue

☒

thickness of plates

☒

If stiffened with rings

☒

nce between rings

☒

working pressure by rules

☒

end plates of superheater, or steam chest; thickness

☒

how stayed

☒

Superheater or steam chest; how connected to boiler

☒

Description of furnaces Adamson's Hanged joints

DONKEY BOILER— 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 _____ if fitted with easing gear _____ if steam from main boilers can enter the donkey boiler _____ diameter of donkey boiler _____ length _____ description of riveting _____

Thickness of shell plates _____ diameter of rivet holes _____ whether punched or drilled _____ pitch of rivets _____ lap of plating _____

per centage of strength of joint _____ thickness of crown plates _____ stayed by _____

Diameter of furnace, top _____ bottom _____ length of furnace _____ thickness of plates _____ description of joint _____

Thickness of furnace crown plates _____ stayed by _____ working pressure of shell by rules _____

Working pressure of furnace by rules _____ diameter of uptake _____ thickness of plates _____ thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Cox & Co Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. *This Boiler has been Constructed under special Survey by Messrs Cox & Co of Falmouth, The Material and Workmanship were found good and efficient, When Tested to 160 lbs per square inch by Hydraulic Pressure was found tight and satisfactory, Safety Valves set to lift at 80 lbs per square inch lifting freely with about 1 1/2" accumulation*

This Boiler is in an Unclamped Vessel

It is submitted that this report be considered satisfactory, but as the boiler is for an unclamped vessel, no further action is required in the case
P.A.
23-12-91

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

Special .. £ 4 : 4 : 0

Donkey Boiler Fee .. £ : :

Certificate (if required) .. £ : : 22-12-1891

To be sent as per margin.

(Travelling Expenses, if any, £)

Committee's Minute

Not for Committee

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

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Foundation