

REPORT ON MACHINERY.

Port of *Falmouth*

Received at London Office

FRI. 6 JUL 1900

No. in Survey held at

*Falmouth*Date, first Survey *24th March 1899* Last Survey *19th February 1900*(Number of Visits *119*)

Book.

on the *S. S. "Victory", Messrs Cox & Co S. S. No. 72.*Tons { Gross *76.37*
Net *14.56*When built *1900-1*Built at *Falmouth* By whom built *Cox & Co*Engines made at *Falmouth* By whom made *Cox & Co*when made *1900*Machinery made at *Falmouth* By whom made *Cox & Co*when made *1900*

Registered Horse Power

Owners *Messrs R. Arthur & Son*Port belonging to *Crewport*

Horse Power as per Section 28

Is Electric Light fitted *Yes*ENGINES, &c.—Description of Engines *Main Boilers Only*

No. of Cylinders

No. of Cranks

Diameter of Cylinders

Length of Stroke

Revolutions per minute

Diameter of Screw shaft

Diameter of Tunnel shaft

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

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

No. of Donkey Engines

*One*Sizes of Pumps *3 1/2" Ram, 4" Stroke*

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

Engine Room *now fitted to be completed at Crewport* In Holds, &c.

No. 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

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

MILERS, &c.—

(Letter for record *S*)

Total Heating Surface of Boilers

*963 sq ft*Is forced draft fitted *Yes*

No. and Description of Boilers

One, cylindrical multitubular

Working Pressure

*110 lbs*Tested by hydraulic pressure to *220 lbs*Date of test *1/12/99* Can each boiler be worked separately ☒

Area of fire grate in each boiler

33.25 sq ft No. and Description of safety valves toeach boiler *Yes, one clipped spring*Area of each valve *4.9 sq in*Pressure to which they are adjusted *not adjusted* Are they fitted

With easing gear

Yes

Smallest distance between boilers or uptakes and bunkers or woodwork

*2"*Mean diameter of boilers *10'-6"*

Length

9'-0"

Material of shell plates

Steel

Thickness

2 1/32"

Description of riveting: circum. seams

double rivet lap

long. seams

double butt strap

Diameter of rivet holes in long. seams

2 7/32"

Pitch of rivets

4 5/8"

Lap of plates or width of butt straps

9 1/8"

Percentage of strength of longitudinal joint

82.4

Working pressure of shell by rules

115.4

Size of manhole in shell

16 x 12

Size of compensating ring

2' 2" x 2' 2" x 2 1/32"

No. and Description of Furnaces in each boiler

Two, Plain

Material

Steel

Outside diameter

3'-4"

Length of plain part

6'-4"

Thickness of plates

1 9/32"

Description of longitudinal joint

*single butt strap**double riveted*

No. of strengthening rings

none

Working pressure of furnace by the rules

124.9

Combustion chamber plates: Material

Steel

Pitch of stays to ditto:

Sides

7 3/4" x 7 5/8"

Back

7 3/4" x 7 5/8"

Top

7 3/4" x 7 5/8"

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

114.3

Material of stays

Steel

Diameter at smallest part

1'-2"

Area supported by each stay

57 sq in

Working pressure by rules

115.6

End plates in steam space:

Steel

Material of stays

Steel

Diameter at smallest part

1'-8 1/4"

Area supported by each stay

210

Working pressure by rules

115.4

Material of Front plates at bottom

Steel

Thickness

1 1/16"

Material of Lower back plate

Steel

Diameter of tubes

3 1/4"

Pitch of tubes

4 1/2"

Material of tube plates

Steel

Thickness: Front

1 1/16"

Back

2 1/32"

Mean pitch of stays

11 1/16"

Pitch across wide water spaces

13 1/8"

Working pressures by rules

112.3

Girders to Chamber tops: Material

Steel

Depth and

7 3/4"

Thickness of girder at centre

5 1/2" x 1"

Length as per rule

22 3/4"

Distance apart

7 5/8"

Number and pitch of Stays in each

Two, 7 3/4"

Working pressure by rules

120

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

☒

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

☒

Lloyd's Register

Foundation

FAL 38-0066

DONKEY BOILER— Description *None Fitted.*

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 main boilers can
 enter the donkey boiler _____ Diameter of donkey boiler _____ Length _____ Material of shell plates _____ Thickness _____
 Description of riveting long. seams _____ Diameter of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____
 Lap of plating _____ Per centage of strength of joint _____ Rivets _____ Thickness of shell crown plates _____ Radius of do. _____ No. of Stays to do. _____
 Dia. of stays _____ Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace 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 uptake plates _____ Thickness of water tubes _____

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Geo R Cox Manufacturer.

Dates of Survey while building { During progress of work in shops - - - From 24th March 1899 to the 1st Dec^r 1899, almost daily,
 { During erection on board vessel - - - From 16th to the 19th Feb 1900
 Total No. of visits 119

General Remarks (State quality of workmanship, opinions as to class, &c. The Forgings and Castings for the Engines of this vessel have been made at Falmouth by Messrs Cox & Co. and forwarded to Newport to be completed by Messrs R. Arthur & Son. The Donkey Engine and Steam Windlass have been fitted on board the vessel and the Steam Pipes for the above, and Feed Pipes of the Donkey have been tested in my presence by Hydraulic Pressure to 250 lbs per square inch found tight and satisfactory. This Boiler has been constructed under Special Survey by Messrs Cox & Co. of Falmouth, the materials and workmanship were found good and efficient when tested to 220 lbs per square inch by Hydraulic Pressure was found tight and satisfactory. The Boiler with all its mountings have been placed on board the vessel which has been towed to Newport where the Engines are to be completed. It is respectfully Recommended that when the Engines are fitted and this Survey is completed the notation of + L M C with date may be assigned to this vessel.

The amount of Entry Fee. . £ : : When applied for,
 Special Boiler .. £ 4 : 0 : 4 - 5 - 19.00
 Donkey Boiler Fee .. £ : : When received,
 Travelling Expenses (if any) £ : : 4 - 5 - 19.00

Committee's Minute

Assigned

FRI, 13 JUL 1900

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



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