

REPORT ON MACHINERY.

Port of Falmouth

Received at London Office FAL. F. JUL 1900

No. in Survey held at Falmouth Date, first Survey 24th March 1899 Last Survey 19th February 1900

Book. on the S. S. "Victory", Messrs Cox & Co S. S. No. 72. (Number of Visits 119) Tons { Gross 76.37 Net 14.56

Registered ✓ Built at Falmouth By whom built Cox & Co When built 1900-1

Engines made at Falmouth By whom made Cox & Co when made 1900

Boilers made at Falmouth By whom made Cox & Co when made 1900

Registered Horse Power Owners Messrs R. Arthur & Son Port belonging to Crewport

Net Horse Power as per Section 28 Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Main Boilers Only

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 _____

BOILERS, &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 to each boiler Two, 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 _____ 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 _____ Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings none

Working pressure of furnace by the rules 124.9 Combustion chamber plates: Material Steel Thickness: Sides 15/32" Back 15/32" Top 15/32" Bottom 17/32"

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: _____

Material Steel Thickness 2 1/32" Pitch of stays 14 1/2" How are stays secured double nutted Working pressure by rules 115.4 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 Thickness 1 9/32" Greatest pitch of stays 11 1/2" Working pressure of plate by rules 113.9

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 _____

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"

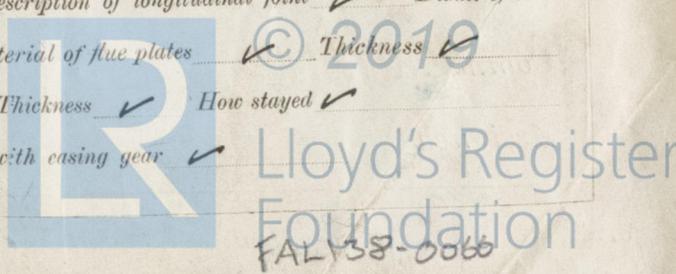
Working pressure by rules 120 Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked _____

Separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet _____

Boles 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 *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 Cox Manufacturer.

Dates of Survey while building

During progress of work in shops - -	}	From 24 th March 1899 to the 1 st Dec ^r 1899, almost daily,	
		During erection on board vessel - -	From 16 th to the 19 th 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 well 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 +LMC with date may be assigned to this vessel.*

Certificate (if required) to be sent to Committee's Minute.

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

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

Committee's Minute

FRI, 13 JUL 1900

Assigned



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