

REPORT ON MACHINERY.

Port of London

MON. 10 OCT 1892

Received at London Office

13

No. in Survey held at
Reg. Book.SpwischDate, first Survey June 4th Last Survey Aug 16 1892(Number of Visits 3)266 on the S. S. ElsyTons { Gross 116
Net 65Master J. Cross Built at KullBy whom built E. WalesWhen built 1883 12Engines made at KullBy whom made E. Waleswhen made 1883 12Boilers made at SpwischBy whom made E. R. and F Turnerwhen made 1892 10Registered Horse Power 20Owners J. S. CrispPort belonging to Lowestoft

Nom. Horse Power as per Section 28

ENGINES, &c.—

Description of Engines

No. of Cylinders

Diameter of Cylinders _____ Length of Stroke _____ Revolutions per minute _____ Diameter of Screw shaft _____ as per rule as fitted

Diameter of Tunnel shaft _____ as per rule as fitted 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 _____ Sizes of Pumps _____ No. and size of Suctions connected to both Bilge and Donkey pumps _____

In Engine Room _____ 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 _____

What pipes are carried through the bunkers _____ 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

No. and Description of Boilers one Working Pressure 80 lbs Tested by hydraulic pressure to 180

Date of test 16/8/92 Can each boiler be worked separately _____ Area of fire grate in each boiler _____ No. and Description of safety valves to each boiler two spring Area of each valve _____ Pressure to which they are adjusted 80 lbs Are they fitted with easing gear yes Smallest distance between boilers or uptakes and bunkers or woodwork _____

Length 7' 2" Material of shell plates Steel Thickness 9/16 Description of riveting: circum. seams Super R. Lap long. seams D. R. D. Butt

Diameter of rivet holes in long. seams 13/16 Pitch of rivets 3 15/32 Lap of plates or width of butt straps 8 1/4

Per centages of strength of longitudinal joint _____ rivets 79.2 Working pressure of shell by rules 110 lbs Size of manhole in shell 12" x 15"

Size of compensating ring Flange ring No. and Description of Furnaces in each boiler two Material Steel Outside diameter 31"

Length of plain part _____ top 4' 6" Thickness of plates _____ crown 7/16 Description of longitudinal joint welded No. of strengthening rings none

bottom 4' 6" bottom 7/16

Working pressure of furnace by the rules 113 Combustion chamber plates: Material Steel Thickness: Sides 7/32 Back 7/32 Top 7/32 Bottom 7/32

Pitch of stays to ditto: Sides 8" Back 9 7/8 Top 9 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 93

Material of stays Steel Diameter at smallest part 1 1/4" Area supported by each stay 92.7 Working pressure by rules 102 End plates in steam space: _____

Material Steel Thickness 9/16 Pitch of stays 13 7/8 How are stays secured Washers Working pressure by rules 92.6 Material of stays Steel

Diameter at smallest part 2' 03 Area supported by each stay 166 Working pressure by rules 110 Material of Front plates at bottom Steel

Thickness 9/16 Material of Lower back plate Steel Thickness 9/16 Greatest pitch of stays 9 7/8 Working pressure of plate by rules 118

Diameter of tubes 3 1/2" Pitch of tubes 4 1/16 Material of tube plates Steel Thickness: Front 9/16 Back 10/16 Mean pitch of stays 11.7

Pitch across wide water spaces none Working pressures by rules 83 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 4 3/4 x 1" Length as per rule 19 3/8 Distance apart 9 1/2 Number and pitch of Stays in each two

Working pressure by rules _____ Superheater or Steam chest; how connected to boiler None 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 _____

53729 Don

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 _____ Pressure to which they are adjusted _____ If fitted with casing 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,

Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c. The material and workmanship

of this boiler are good and in my opinion it is eligible for the record.
It has been securely fitted on board and the safety valves adjusted
to blow at 80 lb and in our opinion the vessel is eligible for the record
+ N.B. 92

Certificate (if required) to be sent to _____

The amount of Entry Fee.. £ : : When applied for,
Special £ 4 : 4 :
Donkey Boiler Fee £ : : When reported,
Travelling Expenses (if any) £ : :
see back on attached

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

Committee's Minute

TUES. 17 OCT 1892
FRIDAY 14 DEC 1894

Assigned



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Lloyd's Register
Foundation