

REPORT ON MACHINERY.

No. 7320

Received at London Office THURS 25 MARCH 1886

No. in Survey held at Glasgow Date, first Survey 16th Feb 1886
 Reg. Book. Donkey Boiler of Ship Ventura (Number of Visits 1669)

on the Donkey Boiler of Ship Ventura Tons 1669
 Master Built at By whom built 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

Diameter of Cylinders Length of Stroke No. of Rev. per minute Point of Cut off, High Pressure Low Pressure

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 condenser, 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 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 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.—

Number of Boilers Description Whether Steel or Iron

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

Area 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

Thickness of shell plates description of riveting of shell long. seams circum. seams

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

Percentage 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

Outside diameter length, top bottom 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 Diameter of stays at smallest part working pressure of ditto by rules end plates in steam space, thickness

Pitch of stays to ditto how stays are secured working pressure by rules diameter of stays at

smallest part working pressure by rules Front plates at bottom, thickness Back plates, thickness

Greatest pitch of stays working pressure by rules Diameter of tubes pitch of tubes thickness of tube

plates, front back how stayed pitch of stays width of water spaces

Diameter of Superheater or Steam chest length thickness of plates description of longitudinal joint diam. of rivet holes

Pitch of rivets working pressure of shell by rules diameter of flue thickness of plates If stiffened with rings

Distance between rings working pressure by rules end plates of superheater, or steam chest; thickness how stayed

Superheater or steam chest; how connected to boiler

Sailing Ship "Ventura"

7320 Gls

DONKEY BOILER—

Description

Cylindrical, Vertical, 3 Horizontal Water tubes

Made at Stockton by whom made Messrs. Riley Bros. when made 7.1.86 where fixed

Working pressure 60 lbs. tested by hydraulic pressure to 120 lbs. No. of Certificate 1296 fire grate area 8.3 sq ft. description of safety valves Direct Spring No. of safety valves One area of each 4" if fitted with easing gear Yes if steam from main boilers can enter the donkey boiler

diameter of donkey boiler 4.0 length 10.0 description of riveting single riv² lap thickness of shell plates 5/16 diameter of rivet holes 1/16 whether punched or drilled punched pitch of rivets 1 3/4 lap of plating 2 1/4

percentage of strength of joint 63 thickness of crown plates 3/8 stayed by Uptake x 4 vertical stays 1 1/4 dia

Diameter of furnace, top 3.4 bottom 3.5 3/8 length of furnace 4.1 thickness of plates 3/8 description of joint single riv² lap

Thickness of furnace crown plates 3/8 stayed by Uptake x 4 vertical stays 1 1/4 dia working pressure of shell by rules 81 lbs.

Working pressure of furnace by rules 73 lbs. diameter of uptake 9 3/4 thickness of plates 3/8 thickness of water tubes 5/16

SPARE GEAR. State the articles supplied: This boiler has been tried under steam

and the Safety Valves set to the working pressure of 60 lbs

per sq. inch and is with all its connections in good working

Condition James Morrison

The foregoing is a correct description, Clyde District

Manufacturer.

General Remarks (State quality of workmanship, opinions as to class, &c.)

The amount of Entry Fee .. £ : received by me, }
 Special .. £ :
 Donkey Boiler Fee .. £ :
 Certificate (if required) .. £ : 18

To be sent as per margin.

(Travelling Expenses, if any, £)

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

Committee's Minute

FRIDAY 26 MARCH 1886



© 2019

Lloyd's Register Foundation