

REPORT ON MACHINERY.

No. 10261 Port of Glasgow Received at London Office May 28 1891
 No. in Survey held at Glasgow Date, first Survey 9th Dec 1890 Last Survey 4th May 1891
 Description of vessel S. S. "Brio" (Number of Visits 25) Tons 1107.20
 main boilers on the on the By whom built Camp & S. B. Cay When built 1891
 Master W. Davie Built at Camp By whom made Kinnaird & Co. (Lim^d) when made
 Engines made at Bremock By whom made H. Wallace & Co. when made 1891
 Boilers made at Glasgow By whom made Fenwick & Peay when made 1891
 Registered Horse Power 98 Owners Fenwick & Peay Port belonging to Newcastle
 Rule 107

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 One Description Multitubular Whether Steel or Iron Steel
 Working Pressure 160 lbs Tested by hydraulic pressure to 320 lbs. Date of test 7th May 1891.
 Description of superheating apparatus or steam chest None
 Can each boiler be worked separately _____ Can the superheater be shut off and the boiler worked separately _____
 Heating surface 1418.19^{sq} feet
 No. of square feet of fire grate surface in each boiler 63 Description of safety valves Direct spring No. to each boiler Two
 Area of each valve 8.3^{sq} in Are they fitted with easing gear yes No. of safety valves to superheater _____ area of each valve _____
 Are they fitted with easing gear _____ Smallest distance between boilers and bunkers or woodwork 12" Diameter of boilers 14'-0"
 Length of boilers 10'-6" description of riveting of shell long. seams d. butts str. circum. seams Lap Thickness of shell plates 1 1/4"
 Diameter of rivet holes 1 5/16" whether punched or drilled drilled pitch of rivets 7 3/4" & 3 7/8" Lap of plating 18 3/4" butts str.
 Percentage of strength of longitudinal joint 83.1% working pressure of shell by rules 160 lbs size of manholes in shell 12x16" str.
 No. of compensating rings d. riv to shell of boiler No. of Furnaces in each boiler Three
 Outside diameter 43" length, top 7'-3 1/2" bottom _____ thickness of plates 1/2" description of joint Purves' if rings are fitted _____
 Greatest length between rings _____ working pressure of furnace by the rules 162 lbs combustion chamber plating, thickness, sides 9/16" back 9/16" top 9/16"
 Pitch of stays to ditto, sides 7 3/4" back 7 3/8" top 7 3/4" If stays are fitted with nuts or riveted heads Nuts inside working pressure of plating by rules 162 lbs
 Diameter of stays at smallest part 1 1/2" x 1 3/8" working pressure of ditto by rules 160 lbs end plates in steam space, thickness 1 1/16" x 7/8" dbl. pl.
 Pitch of stays to ditto 16" x 16" how stays are secured d. nuts working pressure by rules 160 lbs diameter of stays at smallest part _____
 Smallest part 2 3/4" steel bars working pressure by rules 160 lbs Front plates at bottom, thickness 3/4" Back plates, thickness 3/4"
 Greatest pitch of stays _____ working pressure by rules _____ Diameter of tubes 3 1/2" pitch of tubes 4 3/4" thickness of tube plates, front 3/4" back 3/4" how stayed stubs pitch of stays 9 1/2" width of water spaces 5 7/8"
 Diameter of Superheater or Steam chest _____ length _____ thickness of plates _____ description of longitudinal joint _____ diam. of rivet holes _____
 No. 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 _____

Description of furnaces Purves'

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
 valves _____ No. of safety valves _____ area of each _____ if fitted with easing gear _____ if steam from main
 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 rule _____
 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,

by H. Wallace & Co Manufacturers. Aricaid & Co & Co.

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

The boiler, of the dimensions given on other side, has been built and tested as required by the Society's Rules & is now ready for shipment to Greenock where it is intended to have it fitted onboard the vessel.

This report forwarded to Greenock for completion

John Sanderson
Glasgow 9.5.9

The amount of Entry Fee .. £ 2 : - : - received by me,

Special .. £ 15 : 6 : -

Donkey Boiler Fee .. £ c : c : -

Certificate (if required) .. £ Gratia 27th May 1891.

To be paid as per margin.

(Travelling Expenses, if any, £ 1 : - : -)

Committee's Minute

FRI 29 MAY 1891

See minute on attached report

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



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Lloyd's Register Foundation
1324 J. & Co., Ltd.
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**ral Register
VESSELS**

*** These particulars

Letters (if any)

Number of Ship.

8908

and Port of previous Reg

British or Whether a Sailing
Built. and if a Steam S

Steam

of Decks ... One

of Masts ... Three

... Schooner

... Elliptic

... Kincher

... None

... Straight

... Iron

Description.

... Triple Expansion

... Surface Condensing

GROSS TONNAGE.

... Tonnage Deck ...

... spaces above the Tonnage

... or spaces between decks

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