

REPORT ON MACHINERY.

9648

No. 9648 Port of Glasgow Received at London Office 19th Feb 1890
 No. in Survey held at Glasgow Date, first Survey 14th May 1889 Last Survey 19th Feb 1890
 Reg. Book. 553 on the S. S. Turenzie (Number of Visits 411) Tons
 Master Wm. Hamilton & Coy Built at Glasgow By whom built Wm. Hamilton & Coy When built 1879.
 Engines made at Glasgow By whom made J. Howden & Coy when made 1879.
 Boilers made at Glasgow By whom made J. Howden & Coy when made 1889-90
 Registered Horse Power 170. Owners Maurel & St. Prom Port belonging to Bordeaux.

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 _____
 Are the bilge injections _____ and sizes _____ Are they connected to condenser, or to circulating pump _____
 Are the pumps worked _____
 Are the 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 _____
 Are the pipes 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 _____
 Were the 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 80 lbs. Tested by hydraulic pressure to 160 lbs. Date of test 28th January 1890
 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 _____
 No. of square feet of fire grate surface in each boiler 44 1/3 Description of safety valves d. Spring No. to each boiler two
 Area of each valve 9.62 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 15 3/4 Diameter of boilers 14'-0"
 Length of boilers 11'-0" description of riveting of shell long. seams treb. riv. lap circum. seams d. riv. lap Thickness of shell plates 3/4 inch
 Diameter of rivet holes 1 5/8 whether punched or drilled drilled pitch of rivets 5" Lap of plating 7 7/8
 Per centage of strength of longitudinal joint 77.5 working pressure of shell by rules 80 lbs size of manholes in shell 12"x16"
 Size of compensating rings McNells Rings & doors No. of Furnaces in each boiler three
 Outside diameter 41" length, top 8'-0" bottom 10'-4" thickness of plates 1/2" description of joint welded if rings are fitted yes
 Greatest length between rings 48" working pressure of furnace by the rules 97 lbs combustion chamber plating, thickness, sides 7/16 back 7/16 top 7/16
 Pitch of stays to ditto, sides 8 1/4" back 8 1/4" top 8 1/4" If stays are fitted with nuts or riveted heads Nuts working pressure of plating by rules 80 lbs Diameter of stays at smallest part 1 1/4 bars working pressure of ditto by rules 80 lbs end plates in steam space, thickness 1 3/16 washers 3/16
 Pitch of stays to ditto 14"x14" how stays are secured d. nuts working pressure by rules 80 lbs. diameter of stays at smallest part 2 1/2 bars working pressure by rules 81 lbs Front plates at bottom, thickness 9/16 Back plates, thickness 9/16
 Greatest pitch of stays _____ working pressure by rules _____ Diameter of tubes 2 1/2" pitch of tubes 3 3/4" thickness of tube plates, front 7/16 back 7/16 how stayed stayed pitch of stays 7 1/2 x 11 1/4" width of water spaces 6"
 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 _____

Description of furnaces plain.

9648-95

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 _____ if fitted with easing gear _____ if steam from main boilers can 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 rules _____
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,

James Howden & Co. Manufacturer.
per M.B.

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

This boiler has been built and tested as required by the Society's Rules and has now been forwarded to Bordeaux where it will be fitted on board the vessel. When this part of the survey has been favourably reported upon I am of opinion that the vessel machinery is eligible to the notation of: N.B. 90—

John Sanderson

Glasgow 21/2/90

It is submitted that this report be considered satisfactory. The surveyor should be requested to state if the boiler was specially surveyed and if he considers that the special mark should be recorded. Notice should be sent to the surveyor at Bordeaux to survey the boiler when being fitted on board.

W.A.
18/9/91

24-2-90

The amount of Entry Fee £ : : received by me,

Special £ 4 : 4 : ✓

Donkey Boiler Fee £ : :

Certificate (if required) £ : :

To be sent as per margin.

(Travelling Expenses, if any, £)

Committee's Minute TUES. 29 SEP 1891

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



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Foundation