

REPORT ON MACHINERY.

3402

No. 3402 Port of Belfast Received at London Office 18
 No. in Survey held at Belfast Date, first Survey 18 Last Survey 18
 Reg. Book. Auxiliary Boiler S.S. Oceana (Number of Visits) 18
 Master Belfast Built at Belfast By whom built Harland & Wolff Tons 188748
 Engines made at Belfast By whom made Harland & Wolff when made 188748
 Boilers made at Belfast By whom made Harland & Wolff when made 188748
 Registered Horse Power Peninsular & Oriental S.N. 62 Port belonging to Peninsular & Oriental S.N. 62

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
 How 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
 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 Single Ended Multi Whether Steel or Iron Steel
 Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 10th November, 1887
 Description of superheating apparatus or steam chest None fitted
 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 42.5 Description of safety valves See Log Burn's No. to each boiler Two
 Area of each valve 8.3 Are they fitted with easing gear yes No. of safety valves to superheater 1 area of each valve ✓
 Are they fitted with easing gear ✓ Smallest distance between boilers and bunkers or woodwork 18" Diameter of boilers 12'-6"
 Length of boilers 10'-0" description of riveting of shell long. seams ble straps bble Riv circum. seams ble flapped Thickness of shell plates 25"
 Diameter of rivet holes 18" whether punched or drilled drilled pitch of rivets 4.5 Lap of plating 12" But straps
 Percentage of strength of longitudinal joint 75 plate 83 rivets working pressure of shell by rules 103 lbs size of manholes in shell 8" 12" x 16"
 No. of compensating rings ell's Keils Patent No. of Furnaces in each boiler Three
 Inside diameter 35 length, top 7-0 bottom 9-6 thickness of plates 3/4" description of joint Butt with str. bble B.S. if rings are fitted one stud
 Greatest length between rings 7-3 working pressure of furnace by the rules 100 combustion chamber plating, thickness, sides 2 back 2 top 2
 Pitch of stays to ditto, sides 8 3/4 x 8 3/4 back 8 3/4 x 7 5/8 top 8 3/4 x 8 3/4 If stays are fitted with nuts or riveted heads nutted working pressure of plating by rules 100 lbs
 Diameter of stays at smallest part 1 3/8" working pressure of ditto by rules 115 end plates in steam space, thickness 1"
 Pitch of stays to ditto 17" 19" x 17" how stays are secured Two nuts and washers working pressure by rules 113 lbs diameter of stays at smallest part 2 5/8" 2 3/4" x 3"
 Working pressure by rules 135 lbs Front plates at bottom, thickness 3/4" Back plates, thickness 3/4"
 Greatest pitch of stays 13" working pressure by rules 120 lbs Diameter of tubes 3 5/8" - P.W.C. pitch of tubes 4 3/4" x 4 3/4" thickness of tube plates, front 3/4" back 3/4"
 how stayed Stay tubes solid stays 13 1/4" x 9 1/2" width of water spaces 8 1/2" at sides of boxes 6" between boxes 10 1/2" bet. tube nests.
 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 ✓
 Manufacturers Harland & Wolff Superheater or steam chest; how connected to boiler James Maxton

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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,

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

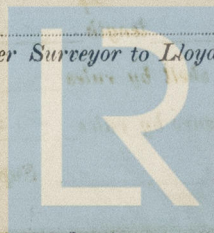
To be sent as per margin.

(Travelling Expenses, if any, £ _____)

Committee's Minute

FRIDAY 21 FEB 1893

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



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