

REPORT ON MACHINERY.

3402

No. 3402

Port of Belfast

MONDAY 20 FEB 1888

No. in Survey held at Belfast

Date, first Survey

Received at London Office

Last Survey

18

Reg. Book.

in Sup. on the

S.S. "Oceana"

(Number of Visits)

Tons

Master E. N. Hector Built at Belfast By whom built Harland & Wolff When built 1887/8

Engines made at Belfast By whom made Harland & Wolff when made 1887/8

Boilers made at Belfast By whom made Harland & Wolff when made 1887/8

Registered Horse Power Owners Peninsular & Oriental S.N. Co. 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 2 Description Cylindrical Multitubular Whether Steel or Iron Steel

Working Pressure 150 lbs. Tested by hydraulic pressure to 300 lbs. Date of test 21st Oct. + 10th Nov. 1887

Description of superheating apparatus or steam chest None fitted

Can each boiler be worked separately Yes Can the superheater be shut off and the boiler worked separately Yes

Area of square feet of fire grate surface in each boiler 115.5 Description of safety valves See Cockburn's No. to each boiler Two

Area of each valve 14.18 sq. ft. Are they fitted with easing gear yes No. of safety valves to superheater 2 area of each valve 1

Are they fitted with easing gear Yes Smallest distance between boilers and bunkers or woodwork 14'-8" Diameter of boilers 14'-8"

Length of boilers 17'-10" description of riveting of shell long. seams 3/16 riv. double strapped circum. seams Lapped Thickness of shell plates 1 1/4"

Diameter of rivet holes 1 3/8" whether punched or drilled drilled pitch of rivets 8.28 Lap of plating Straps 20" x 1 3/8"

Percentage of strength of longitudinal joint 83 plate working pressure of shell by rules 153 lbs. size of manholes in shell 12" x 16"

No. of compensating rings McNeill's pt section No. of Furnaces in each boiler Six

Inside diameter 44 1/2" + 41 1/2" length, top 7'-0" bottom 8'-10" thickness of plates 1 1/4" description of joint Welded Fox's Pt. if rings are fitted

Greatest length between rings working pressure of furnace by the rules 150 combustion chamber plating, thickness, sides 9/16 back 5/8 top 5/8

Distance of stays to ditto, sides 8" x 8" back 8 1/2" x 8" top 8 3/4" x 8" If stays are fitted with nuts or riveted heads riveted through shell working pressure of plating by rules 152

Diameter of stays at smallest part 1 3/8" working pressure of ditto by rules 169 end plates in steam space, thickness 1 1/8"

Distance of stays to ditto 10 3/4" + 18" + 16 3/4" how stays are secured Double nuts and washers working pressure by rules 160 lbs. with 160 diameter of stays at smallest part 2 3/4" steel + 3 1/2" iron working pressure by rules 165 lbs. Front plates at bottom, thickness 1 3/8" Back plates, thickness 1 1/2"

Greatest pitch of stays working pressure by rules 165 lbs. Diameter of tubes 3 1/2" - 7" N.B. pitch of tubes 4 3/4" x 4 3/4" thickness of tube 1 1/4"

Plating, front 1 3/8" back 3/4" how stayed Stay tubes pitch of stays 9 1/2" x 9 1/2" width of water spaces 7" at bay of boxes

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

Signature Harland Wolff Surveyor James Maxton

Lloyd's Register of Shipping

BELSH - 0250

