

REPORT ON MACHINERY. 3492

No. in Survey held at Belfast Port of Belfast
 Date, first Survey 22 Oct 1888 Last Survey 18
 Sup. on the Winch boiler of S.S. "Palmas" (Number of Visits 1)
 Tons
 Built at By whom built When built
 By whom made when made
 By whom made when made
 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 the roses always accessible Are the sluices on Engine room bulkheads always accessible
 Are they connected to condenser, or to circulating pump
 Are they Valves or Cocks
 Are the discharge pipes above or below the deep water line
 Are the blow off cocks fitted with a spigot and brass covering plate
 How are they protected
 Are they accessible at all times
 Are they arranged so as to prevent an unintentional connection between the sea and the bilges
 Are they examined in dry dock
 Are they worked from

One Description Circ. Single ended Mult. Whether Steel or Iron Steel
 Tested by hydraulic pressure to 120 lbs Date of test 31st Aug. 1888 Cert. No. 37
 Superheating apparatus or steam chest Steam dome Saddled on top of boiler
 Can the superheater be shut off and the boiler worked separately No
 Area of square feet of fire grate surface in each boiler 27 sq ft. Description of safety valves Cockburn's No. to each boiler 2
 Area of each valve 3.14 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 Diameter of boilers 8'-6"
 Length of boilers 8'-0" description of riveting of shell long. seams lap & double rivet circum. seams lap & single Thickness of shell plates 7/16"
 Diameter of rivet holes 3/4" whether punched or drilled drilled pitch of rivets 2 1/2" Lap of plating H"
 Percentage of strength of longitudinal joint 70 working pressure of shell by rules 62 lbs. size of manholes in shell 12" x 16"
 Diameter of compensating rings Ring 4 1/2 x 5 7/8" iron No. of Furnaces in each boiler Two
 Inside diameter 2'-8 1/2" length, top 5'-6" bottom 6'-9" thickness of plates 3/8" description of joint welded if rings are fitted
 Greatest length between rings working pressure of furnace by the rules 85 lbs. combustion chamber plating, thickness, sides 7/16" back 7/16" top 7/16"
 Diameter of stays to ditto, sides 8 3/4" back 8 3/4" top 8 3/4" If stays are fitted with nuts or riveted heads nutted working pressure of plating by rules 70 lbs.
 Diameter of stays at smallest part 1 7/8" iron working pressure of ditto by rules 60 lbs. end plates in steam space, thickness 5/8"
 How stays are secured double nuts & large washer plates 9 1/2 x 1 1/2" working pressure by rules 62 lbs. diameter of stays at smallest part 1 3/4" iron
 Working pressure by rules 60 lbs. Front plates at bottom, thickness 3/8" Back plates, thickness 9/16"
 Greatest pitch of stays 8 3/4" working pressure by rules Diameter of tubes 3 1/4" pitch of tubes 4 1/2 x 4 1/2" thickness of tube plates, front 5/8" back 5/8"
 How stayed stay tubes pitch of stays 9" width of water spaces back 7 1/2 x 5 1/2" sides 6 x 5 1/2" top 12 1/2"
 Diameter of Superheater or Steam done 3'-6" length 4'-0" thickness of plates 3/8" description of longitudinal joint lap & double rivet diam. of rivet holes 3/4"
 Working pressure of shell by rules 150 lbs. diameter of flue thickness of plates If stiffened with rings
 Working pressure by rules end plates of superheater, or steam done; thickness how stayed Conway + 4 1 1/2" stays
 Superheater or steam done; how connected to boiler nutted as saddle
 Made by MacLennan, Lewis & Co., Ltd. James M. Davidson
Genl. Mgr. MacLennan Director Surveyor

