

REPORT ON BOILERS.

No. 14442

pt. 5a.

Received at London Office MON. JUL 1-1912
 Date of writing Report 21 June 1912 When handed in at Local Office 24 June 1912 Port of West Hartlepool
 Description of Ship No. in Survey held at West Hartlepool Date, First Survey 1st May Last Survey 22 June 1912
 Adjustment eg. Book. on the Steel Steamer Penolver (Number of Visits 15)
 Length Built at West Hartlepool By whom built W. Gray & Co. Ltd When built 1912
 Rivets Engines made at West Hartlepool By whom made Central Marine & W. Co. when made 1912
 Plates Boilers made at West Hartlepool By whom made Central Marine & W. Co. when made 1912
 of stays Registered Horse Power Owners W.B. Chellens Port belonging to Falmouth

MULTITUBULAR BOILERS ~~MAIN~~, ~~AUXILIARY~~ OR ~~DONKEY~~.—Manufacturers of Steel J. Spencer & Co.
 Letter for record ~~S~~ Total Heating Surface of Boilers 724 sq ft Is forced draft fitted ~~Yes~~
 Boilers One single ended Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 30/5/12
 No. of Certificate 3285 Can each boiler be worked separately ~~Yes~~ Area of fire grate in each boiler 25.8 sq ft No. and Description of
 Safety valves to each boiler Two Spring Area of each valve 7.07 sq ft Pressure to which they are adjusted 103 lb
 Are they fitted with easing gear ~~Yes~~ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler ~~Yes~~
 Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 10.0" Length 10.0"
 Material of shell plates ~~Steel~~ Thickness 10/16 Range of tensile strength 24-26 Are the shell plates welded or flanged ~~both~~
 Descrip. of riveting: cir. seams long. seams ~~all strip all~~ Diameter of rivet holes in long. seams 14/16 Pitch of rivets 3 1/4"
 Gap of plates or width of butt straps 9 1/2 Per centages of strength of longitudinal joint rivets 76.3
 Working pressure of shell by rules 105 lb Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1 1/2"
 No. and Description of Furnaces in each
 Boiler One Main Material ~~Steel~~ Outside diameter 35 1/2 Length of plain part top 76 1/2 Thickness of plates crown 17 1/2
 Description of longitudinal joint ~~Welded~~ No. of strengthening rings Working pressure of furnace by the rules 112 lb Combustion chamber
 Plates: Material ~~Steel~~ Thickness: Sides 19/32 Back 19/32 Top 19/32 Bottom 10/16 Pitch of stays to ditto: Sides 9 1/8 Back 11 1/2 x 10
 Top 9 If stays are fitted with nuts or riveted heads ~~both~~ Working pressure by rules 100 lb Material of stays ~~Steel~~ Diameter at
 Smallest part 1 3/8 Area supported by each stay 1 1/2 x 9 1/2 Working pressure by rules 105 lb End plates in steam space: Material ~~Steel~~ Thickness 2 3/32
 Pitch of stays 17 1/2 x 10 How are stays secured ~~all nut~~ Working pressure by rules 100 lb Material of stays ~~Steel~~ Diameter at smallest part 1 7/8
 Do. 5189 Area supported by each stay 17 1/2 x 10 Working pressure by rules 114 lb Material of Front plates at bottom ~~Steel~~ Thickness 2 3/32 Material of
 Do. 5189 Lower back plate ~~Steel~~ Thickness 2 3/32 Greatest pitch of stays 14 Working pressure of plate by rules 100 lb Diameter of tubes 3 1/2
 Pitch of tubes 4 7/8 x 4 1/2 Material of tube plates ~~Steel~~ Thickness: Front 2 3/32 Back 10/16 Mean pitch of stays 13 1/2 x 9 Pitch across wide
 Water spaces 14 Working pressures by rules 101 lb Girders to Chamber tops: Material ~~Steel~~ Depth and thickness of
 Girder at centre 6 1/2 x 1 1/4 Length as per rule 26 Distance apart 9 Number and pitch of Stays in each one
 Working pressure by rules 106 lb Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked
 separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet
 holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,
 FOR THE CENTRAL MARINE ENGINE WORKS
 Manufacturer.

Dates of Survey 1912 During progress of work in shops - May 1-3-7-8-9-13-15-16-20-21-22-23-24-30 June 22.
 while building During erection on board vessel -
 Is the approved plan of boiler forwarded herewith ~~Yes~~
 Total No. of visits 15.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This donkey boiler has been
 constructed under special survey in accordance with the approved Rules
 and tested by hydraulic pressure and found tight and sound
 It has now been efficiently fitted in the stokehold of the above
 vessel

Survey Fee ... £ 2 : 2 : When applied for Monthly 19%
 Travelling Expenses (if any) £ : : When received 19

Committee's Minute TUE. JUL. 2-1912
 Assigned
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

