

REPORT ON BOILERS.

No. 31145

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Date of writing Report 27.2.1912 When handed in at Local Office Port of Glasgow
 No. in Survey held at Clydebank Date, First Survey 16th June 1910 Last Survey 17th Feb 1912
 Reg. Book. on the Steel Twin 1/2 Wiltshire (Number of Visits 68) Tons { Gross 10390 Net 6598
 Master B. G. Hayward Built at Clydebank By whom built John Brown & Co Ltd When built 1912
 Engines made at Clydebank By whom made do When made 1912
 Boilers made at do By whom made do When made 1912
 Registered Horse Power Owners Federal Steam Nav Co Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel D Colville Sons

(Letter for record S) Total Heating Surface of Boilers 6652 Is forced draft fitted yes No. and Description of Boilers Two - single ended Working Pressure 215 lbs Tested by hydraulic pressure to 430 lbs Date of test 21-11-10
 No. of Certificate 10667 Can each boiler be worked separately yes Area of fire grate in each boiler 78.8 sq ft No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 8.29 sq in Pressure to which they are adjusted 215 lbs
 Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler —
 Smallest distance between boilers or uptakes and bunkers or ~~woodwork~~ 9" Mean dia. of boilers 14'-0" Length 11'-6"
 Material of shell plates steel Thickness 1 3/4" Range of tensile strength 30 1/2 to 34 1/2 tons Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams DR lap long. seams BS. TR Diameter of rivet holes in long. seams 1 3/4" Pitch of rivets 10 1/2"
 Lap of plates or width of butt straps 2 1/2" Per centages of strength of longitudinal joint rivets 97.1 Working pressure of shell by rules 233 Size of manhole in shell 16 x 12 Size of flanged compensating ring 3'-6 1/2" x 2'-11" No. and Description of Furnaces in each boiler 4 Beighton Material steel Outside diameter 46 5/8" Length of plain part top — Thickness of plates crown 11" bottom 16"
 Description of longitudinal joint welded No. of strengthening rings — Working pressure of furnace by the rules 243 Combustion chamber plates: Material steel Thickness: Sides 5/8" Back 3/4" Top 5/8" Bottom 15/16" Pitch of stays to ditto: Sides 7 1/2" x 7 1/2" Back 7 1/2" x 7 1/2" Top 7 1/2" x 7 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 240 Material of stays steel Diameter at smallest part 1 4/8" Area supported by each stay 56 sq in Working pressure by rules 215 End plates in steam space: Material steel Thickness 1 5/32"
 Pitch of stays 16 1/2" x 16 3/8" How are stays secured DN Working pressure by rules 221 Material of stays steel Diameter at smallest part 3 7/8" Area supported by each stay 270 sq in Working pressure by rules 306 Material of Front plates at bottom steel Thickness 15/16" Material of lower back plate steel Thickness 1" Greatest pitch of stays 14 1/2" Working pressure of plate by rules 262 Diameter of tubes 2 1/2"
 Pitch of tubes 3 3/4" x 3 3/4" Material of tube plates steel Thickness: Front 13/16" Back 7/8" Mean pitch of stays 9 3/8" Pitch across wide water spaces 13 1/2" doubled Working pressures by rules 292 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 2 plates 8 3/4" x 3/4" Length as per rule 30 1/2" Distance apart 7 1/2" Number and pitch of Stays in each 34 7 1/2"
 Working pressure by rules 231 Superheater or Steam chest; how connected to boiler none 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 — 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 —

John Brown & Company, Limited.
 The foregoing is a correct description,
J. J. Henderson Manufacturer

Dates of Survey { During progress of work in shops - - } See Machinery report. Is the approved plan of boiler forwarded herewith
 while { During erection on board vessel - - } — Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
See report on machinery

Survey Fee ... £ : : When applied for, 191
 Travelling Expenses (if any) £ : : When received, 191
 Shipping

Committee's Minute GLASGOW 27 FEB. 1912
 Assigned See minute on accompanying machinery report.
 Harry Clarke
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

