

REPORT ON BOILERS.

No. 24334

MUR 3 FEB 1910

Received at London Office

Date of writing Report 19 When handed in at Local Office 2.2.10 Port of Sunderland
 No. in Survey held at Sunderland. Date, First Survey 7 Sept '09 Last Survey 26 Jan'y 1910
 Reg. Book. on the Donkey Boiler 75 Collingham (Number of Visits) Gross 4080
 Master Built at Sland. By whom built J.L. Thompson & Co. When built 1909-10
 Engines made at Sland. By whom made J. Dickinson & Sons Ltd when made 1909. 10
 Boilers made at " By whom made Do when made "
 Registered Horse Power Owners Harris Dixon Ltd Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Sons Ltd

(Letter for record 5) Total Heating Surface of Boilers 877 f. Is forced draft fitted No. and Description of
 Boilers One S.E. Working Pressure 90 lb. Tested by hydraulic pressure to 180 lb. Date of test 11/12/09

No. of Certificate Can each boiler be worked separately Area of fire grate in each boiler 29.7 f. No. and Description of
 safety valves to each boiler 2 Spring Area of each valve 4.9 f. Pressure to which they are adjusted 95 lb.

Are they fitted with easing gear Yes. In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No.

Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 10' 6" Length 10 ft

Material of shell plates S Thickness 2 1/2" Range of tensile strength 28/32 Are the shell plates welded or flanged Ends

Descrip. of riveting: cir. seams Lap 2 1/2" long. seams Lap 3 1/2" Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 1/2"

Lap of plates or width of butt straps 6 1/2. Per centages of strength of longitudinal joint rivets 80.3 plate 44.5 Working pressure of shell by

rules 92 lb. Size of manhole in shell 16" x 12" Size of compensating ring 4 1/2" x 1 1/2" No. and Description of Furnaces in each

boiler 2 plain Material S. Outside diameter 3 ft Length of plain part top 6' 2" Thickness of plates crown 1/2" bottom 6' 8" bottom 1/2"

Description of longitudinal joint Butt Strap No. of strengthening rings Working pressure of furnace by the rules 91 lb. Combustion chamber

plates: Material S Thickness: Sides 7/8 Back 1 1/2 Top 7/8 Bottom 1/2 Pitch of stays to ditto: Sides 12" x 11 Back 11 1/2 x 11

Top 12" x 1 1/2 If stays are fitted with nuts or riveted heads No. Working pressure by rules 96 Material of stays S Diameter at

smallest part 1.45 Area supported by each stay 126" Working pressure by rules 92 End plates in steam space: Material S Thickness 2 1/2"

Pitch of stays 15" x 1 1/2 How are stays secured 7 nuts Working pressure by rules 95 Material of stays S Diameter at smallest part 2.03

Area supported by each stay 215" Working pressure by rules 98 Material of Front plates at bottom S Thickness 1 1/2 Material of

Lower back plate S Thickness 1 1/2 Greatest pitch of stays 12 1/2 x 11 Working pressure of plate by rules 90 Diameter of tubes 3 1/2"

Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates S Thickness: Front 1 1/2 Back 1 1/2 Mean pitch of stays 14 1/2 Pitch across wide

water spaces 13 1/2 Working pressures by rules 97 lb. Girders to Chamber tops: Material S Depth and thickness of

girder at centre 5 1/2 x 1 1/2 Length as per rule 3 1/4 Distance apart 4 1/2 Number and pitch of Stays in each 1 @ 4 1/2

Working pressure by rules 94 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,

John Dickinson & Sons, Limited.

Manufacturer.

Dates of Survey During progress of work in shops - 1909 Sep. 7. 9. 15. 23 Oct. 14 Dec. 2. 16 Is the approved plan of boiler forwarded herewith
 while building During erection on board vessel - 10. 11. 20. 24. 28 - 1910 Jan. 15. 26 Total No. of visits 15.

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

Boiler built under Special Survey.
 Materials & workmanship good & efficient.
 Examined under steam & found satisfactory

Survey Fee ... £ 2 : 2 : When applied for, 2.2.10

Travelling Expenses (if any) £ : : When received, 4.2.10

J. J. Hindley
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned

FEB. 4 FEB 1910