

Shell

Hull No. 19619

B195

Rpt. 5a.

REPORT ON BOILERS.

No. 53470

Received at London Office THUR. 28 NOV 1907

Date of writing Report 19 When handed in at Local Office - 4 NOV 1907 Port of Newcastle-on-Tyne
 No. in Survey held at Wallsend Date, First Survey 9 July Last Survey 21 July 1907
 Reg. Book. 27 Supp. on the Steam Trawler "Lizzie" (Number of Visits 11) Gross 278 Tons Net 99
 Master Goole Built at Goole By whom built Goole Shipbuilding Co When built 1907
 Engines made at Coatbridge By whom made W.D. & L. Lidgerwood when made 1907
 Boilers made at Wallsend By whom made Wallsend Shipway & Eng. Co. Ltd when made 1907
 Registered Horse Power 75.33 Owners G. Cohen Port belonging to Garnaby Fleetwood

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

(Letter for record R.) Total Heating Surface of Boilers 1258 sq. ft. Is forced draft fitted no. No. and Description of Boilers 1 S.S. Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 31.7.07

No. of Certificate 7543 Can each boiler be worked separately no. Area of fire grate in each boiler 42 3/4 sq. ft. No. and Description of safety valves to each boiler two direct spring Area of each valve 4.9 sq. in. Pressure to which they are adjusted 185 lbs

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 10 in. Mean dia. of boilers 13 feet Length 10 feet

Material of shell plates S Thickness 1/4 in. Range of tensile strength 29.33. Are the shell plates welded or flanged ends
 Descrip. of riveting: cir. seams d. r. lap long. seams d. butts. Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 7 1/2

Lap of plates or width of butt straps 15 3/8. Per centages of strength of longitudinal joint rivets 86.5 plate 85.8 Working pressure of shell by rules 181. Size of manhole in shell 16 x 12 Size of compensating ring metal No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 39 5/8 Length of plain part top 6' 5" Thickness of plates crown 3/4 bottom 3/4

Description of longitudinal joint Weld, No. of strengthening rings 27. Working pressure of furnace by the rules 189. Combustion chamber plates: Material S Thickness: Sides 3/32 Back 3/32 Top 3/32 Bottom 7/8 Pitch of stays to ditto: Sides 9 x 8 3/4 Back 9 5/8 x 8 1/2

Top 9 x 8 3/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 Material of stays S. Diameter at smallest part 1 1/6 Area supported by each stay 82.4 Working pressure by rules 186 End plates in steam space: Material S Thickness 1 1/16

Pitch of stays 19 5/8 x 18 1/4 How are stays secured d. nuts Working pressure by rules 181 Material of stays S. Diameter at smallest part 3.28

Area supported by each stay 349.4. Working pressure by rules 182 Material of Front plates at bottom S Thickness 1 in. Material of Lower back plate S Thickness 3/8 Greatest pitch of stays 14 3/8 Working pressure of plate by rules 185 Diameter of tubes 3 1/2

Pitch of tubes 4 3/4 x 4 3/4 Material of tube plates S Thickness: Front 1 in. Back 3/4 Mean pitch of stays 9 in. Pitch across wide water spaces 14 in. Working pressures by rules 223. Girders to Chamber tops: Material S. Depth and thickness of girder at centre 7 1/2 x 12 Length as per rule 27 3/4 Distance apart 9 in. Number and pitch of Stays in each 2 of 8 3/4

Working pressure by rules 189. Superheater or Steam chest; how connected to boiler no. Can the superheater be shut off and the boiler worked separately no. Diameter no. Length no. Thickness of shell plates no. Material no. Description of longitudinal joint no. Diam. of rivet holes no. Pitch of rivets no. Working pressure of shell by rules no. Diameter of flue no. Material of flue plates no. Thickness no.

If stiffened with rings no. Distance between rings no. Working pressure by rules no. End plates: Thickness no. How stayed no.

Working pressure of end plates no. Area of safety valves to superheater no. Are they fitted with easing gear no.

The foregoing is a correct description, FOR THE WALLSEND SHIPWAY & ENGINEERING CO., LIMITED. Manufacturer.

Dates of Survey } During progress of work in shops - - - 1907 July 9, 11, 12, 13, 15, 24, 31.
 while building } During erection on board vessel - - - 1907 Oct 29, Nov 1, 5, 7.
 Is the approved plan of boiler forwarded herewith no. retained for reference
 Total No. of visits 11

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

This boiler has been built under Special Survey. The material & workmanship are good. The boiler fitted on board, tested under steam and found satisfactory. Leonard & Shallockross.

Survey Fee ... £ to be at. from Glasgow When applied for, 1907
 Travelling Expenses (if any) £ no. When received, 1907
 J. S. Sindlay
 Engineer, Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. 29 NOV 1907
Assigned

