

## REPORT ON BOILERS.

No. 53470

Hull No. 19619

B195

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<sup>th</sup> July Last Survey 24<sup>th</sup> 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 Goathbridge By whom made W.D. & L. Lidgerwood when made 1907  
 Boilers made at Wallsend By whom made Wallsend Shipway & Eng'g Co Ltd when made 1907  
 Registered Horse Power 75.33 Owners G. Cohen Port belonging to Gunnaby 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.E. 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" Mean dia. of boilers 13 feet Length 10 feet  
 Material of shell plates S Thickness 1 1/4" 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 1/2" Per centages of strength of longitudinal joint rivets 86.5 Working pressure of shell by rules 181 plate 85.8  
 Size of manhole in shell 16" x 12" Size of compensating ring 14" No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 39 1/2" Length of plain part 6' 5" Thickness of plates 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 1/2 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" 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" Back 3/4" Mean pitch of stays 9" Pitch across wide water spaces 14" 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" 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 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 WALLSEND SHIPWAY & ENGINEERING CO., LIMITED. Manufacturer.

Is the approved plan of boiler forwarded herewith yes retained for reference  
 Total No. of visits 11

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;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 & Shalloo.

Survey Fee ... £ 10 0 0  
 Travelling Expenses (if any) £ 10 0 0

When applied for, 19  
 When received, 19

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

Committee's Minute

Assigned

FRI. 29 NOV 1907