

# REPORT ON BOILERS.

THU MAY 27 1920  
No. 27818

Date of writing Report \_\_\_\_\_ Received at London Office \_\_\_\_\_  
 No. in Survey held at \_\_\_\_\_ When handed in at Local Office 26 MAY 1920 Port of SUNDERLAND  
 Reg. Book. SUNDERLAND Lowestoft Date, First Survey 13 Feb 1920 Last Survey \_\_\_\_\_  
 on the Messrs G. Clark's Boiler 110 1/2 S.S. "Wynstone" (Number of Visits \_\_\_\_\_) } Gross  
 Master \_\_\_\_\_ Built at Lowestoft By whom built John Chambers Ltd When built 1920 } Net  
 Engines made at S. Shields By whom made G. J. Gray No 606 When made 1920  
 Boilers made at Sunderland By whom made G. Clark Ltd 110 1/2 When made 1920  
 Registered Horse Power \_\_\_\_\_ Owners Messrs Stone & Relf Port belonging to Llanelli

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Spenner & Sons

(Letter for record S) Total Heating Surface of Boilers 1844 sq ft Is forced draft fitted no No. and Description of Boilers one single ended Working Pressure 150 lbs Tested by hydraulic pressure to 360 lbs Date of test 14.5.20  
 No. of Certificate 3685 Can each boiler be worked separately ✓ Area of fire grate in each boiler \_\_\_\_\_ No. and Description of safety valves to each boiler 2 Spring Loaded Area of each valve 5.9 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 No.  
 Smallest distance between boilers or uptakes and bunkers or woodwork 18 ins Ex Mean dia. of boilers 14-0 Length 10-6  
 Material of shell plates S Thickness 1 1/8 Range of tensile strength 28-32 Are the shell plates welded or stanged no  
 Descrip. of riveting: cir. seams lap long. seams d. 1/2 in Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 3/8  
 Lap of plates or width of butt straps 18 Per centages of strength of longitudinal joint rivets 87 Working pressure of shell by rules 182 plate 86  
 Size of manhole in shell 12 x 16 Size of compensating ring 8 x 1 3/16 No. and Description of Furnaces in each boiler 3 Dighton Material S Outside diameter 3-7 Length of plain part \_\_\_\_\_ Thickness of plates crown 3 3/4 bottom 1 1/4  
 Description of longitudinal joint welded No. of strengthening rings \_\_\_\_\_ Working pressure of furnace by the rules 182 Combustion chamber plates: Material S Thickness: Sides 2 3/32 Back 1/16 Top 2 3/32 Bottom 2 3/32 Pitch of stays to ditto: Sides 9 1/4 x 9 1/2 Back 9 3/4 x 8 7/8  
 Top 9 x 9 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 188 Material of stays S Area at smallest part 2.03 sq in Area supported by each stay 88 sq in Working pressure by rules 207 End plates in steam space: Material S Thickness 1 9/32  
 Pitch of stays 22 x 17 3/4 How are stays secured d. n. r. w. Working pressure by rules 184 Material of stays S Area at smallest part 6.49 sq in  
 Area supported by each stay 370 sq in Working pressure by rules 182 Material of Front plates at bottom S Thickness 1 3/16 Material of Lower back plate S Thickness 1 5/16 Greatest pitch of stays 14 3/4 Working pressure of plate by rules 194 Diameter of tubes 3 1/4  
 Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates S Thickness: Front 1 3/16 Back 3/4 Mean pitch of stays 1 1/4 x 5 3/4 Pitch across wide water spaces 14 1/2 Working pressures by rules 262 Girders to Chamber tops: Material S Depth and thickness of girder at centre 7 3/8 x 1 3/4 Length as per rule 30 Distance apart 9 Number and pitch of Stays in each 2, 9 1/2  
 Working pressure by rules 181 Steam dome: description of joint to shell \_\_\_\_\_ % of strength of joint \_\_\_\_\_  
 Diameter \_\_\_\_\_ Thickness of shell plates \_\_\_\_\_ Material \_\_\_\_\_ Description of longitudinal joint \_\_\_\_\_ Diam. of rivet holes \_\_\_\_\_  
 Pitch of rivets \_\_\_\_\_ Working pressure of shell by rules \_\_\_\_\_ Crown plates \_\_\_\_\_ Thickness \_\_\_\_\_ How stayed \_\_\_\_\_

UPERHEATER. Type \_\_\_\_\_ Date of Approval of Plan \_\_\_\_\_ Tested by Hydraulic Pressure to \_\_\_\_\_  
 Date of Test \_\_\_\_\_ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler \_\_\_\_\_  
 Diameter of Safety Valve \_\_\_\_\_ Pressure to which each is adjusted \_\_\_\_\_ Is Easing Gear fitted \_\_\_\_\_

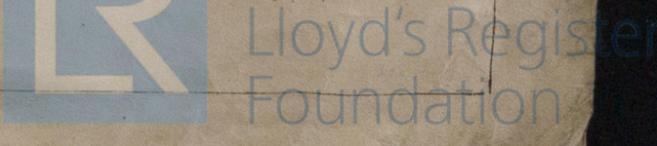
The foregoing is a correct description,  
 FOR GEORGE CLARK LIMITED  
 69, Old Broad Street, London, E.C. 4.  
 Manufacturer.

Dates of Survey: During progress of work in shops 1920 Feb. 13, 26, Mar. 8, 23, Apr. 14, 22, May 6, 10, 14 Is the approved plan of boiler forwarded herewith Yes  
 while building: During erection on board vessel \_\_\_\_\_ Total No. of visits \_\_\_\_\_  
 not returned from the \_\_\_\_\_

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)  
This boiler has been built under special survey. The materials and workmanship are sound and good. The boiler was built to the order of Messrs G. J. Gray, S. Shields engine No 606.

Survey Fee ... £ 6 : 3 :  
 Travelling Expenses (if any) £ \_\_\_\_\_ :  
 When applied for, 26 MAY 1920  
 When received, as per order 191  
on 18.6.20

Committee's Minute \_\_\_\_\_  
 Assigned \_\_\_\_\_  
 FRI. 17 DEC. 1920  
G. A. Stone & Robert Rae  
 Engineer Surveyor to Lloyd's Register of Shipping.



W491-0106