

REPORT ON BOILERS.

No. 8922.

Hull Rpt No. 28647

Received at London Office THU. APR. 23 1915

Date of writing Report 101 When handed in at Local Office Apl. 28 1915 S. Port of Middlesbrough
 No. in Survey held at Middlesbrough Date, First Survey June 30 1914 Last Survey November 13 1914
 Reg. Book. on the Boiler No. M2236 S/S Gwesham (Number of Visits 1st) } Gross
 Tons } Net
 Master Built at Selby By whom built Cochrane Bros When built
 Engines made at Coatbridge By whom made W. V. V. Lidgerwood Ltd When made
 Boilers made at Middlesbrough By whom made Richardsons, Westgarth & Co. Ltd When made 1914
 Registered Horse Power Owners St. Northern S.S. Fishing Co. Ltd Port belonging to Hull

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

(Letter for record (S)) Total Heating Surface of Boilers 810 sq ft Is forced draft fitted No. and Description of Boilers One S.E. Cyl. Mult. Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 13.11.14
 No. of Certificate 5417 Can each boiler be worked separately ✓ Area of fire grate in each boiler 25 sq ft No. and Description of safety valves to each boiler 2 Spring Area of each valve X Pressure to which they are adjusted X
 Are they fitted with casing gear ✓ 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 X ^{Sub} Mean dia. of boilers 11-0" Length 9-6"
 Material of shell plates Steel Thickness 1" Range of tensile strength 29-33 Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams B.R. Lap long. seams B.B.S. Rivets Diameter of rivet holes in long. seams 1 1/8" Pitch of rivets 7 1/2"
~~Lap of plates or width of butt straps~~ 16 1/2" Per centages of strength of longitudinal joint rivets 98.2 Working pressure of shell by rules 205 lbs Size of manhole in shell 16"x12" Size of compensating ring W. Neil's plate 85
 boiler Two plain Material Steel Outside diameter 3'-3" Length of plain part 5'-2 1/2" Thickness of plates 4 1/2" crown } 4 1/2" bottom } 6 1/4"
 Description of longitudinal joint Welded No. of strengthening rings ✓ Working pressure of furnace by the rules 202 Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 1 3/16" Pitch of stays to ditto: Sides 9"x7 1/4" Back 8 1/2"x7 3/4"
 Top 9"x7 1/4" stays are fitted with nuts or riveted heads Nuts Working pressure by rules 204 Material of stays Steel Area at smallest part 2.07 sq in Area supported by each stay 66 sq in Working pressure by rules 282 End plates in steam space: Material Steel Thickness 1"
 Pitch of stays 15"x14 1/2" How are stays secured bxw Working pressure by rules 218 Material of stays Steel Area at smallest part 5.03 sq in
 Area supported by each stay 217.5 sq in Working pressure by rules 240 Material of Front plates at bottom Steel Thickness 1" Material of Lower back plate Steel Thickness 1" Greatest pitch of stays 13 3/4"x7 3/4" Working pressure of plate by rules 276 Diameter of tubes 3 1/4"
 Pitch of tubes 4 3/4"x4 1/2" Material of tube plates Steel Thickness: Front 1" Back 3/8" Mean pitch of stays 9 1/4" Pitch across wide water spaces 13 3/4" Working pressures by rules 204 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 3/4"x1 3/4" Length as per rule 2'-7 1/2" Distance apart 7 1/4" Number and pitch of Stays in each 2 @ 9"
 Working pressure by rules 223 lbs 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 ✓
 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 ✓ For and on behalf of Are they fitted with casing gear ✓

SURVEY REQUEST NO. 942 ATTACHED.

RICHARDSONS, WESTGARTH & Co., Ltd. The foregoing is a correct description,

M. Jackson Manufacturer. MANAGER.

Dates of Survey } During progress of work in shops - - } 1914 Jun. 30. Jul. 7-14 21. 31. Aug. 28. Sep. 22. Oct. 3-12 22. Is the approved plan of boiler forwarded herewith yes
 while building } During erection on board vessel - - - } 30. Nov. 4 10. 13 Total No. of visits 1st

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey, is of good material and workmanship, and has been tested by hydraulic pressure with satisfactory results. It has now been sent to Hull to be fitted in the vessel.

Survey Fee £ 2 : 13-4 When applied for, To be credited from Glasgow.
 Travelling Expenses (if any) £ : : When received, 877/15

[Signature]
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. JUL. 16. 1915

Committee's Minute

Assigned

