

REPORT ON BOILERS.

No. 14155

Received at London Office

11 JUL 1917

Writing Report 23 June 1917 When handed in at Local Office 29 June 1917 Port of Greenock
 Survey held at Greenock & St Glasgow Date, First Survey 11th Apr 1916 Last Survey 27 June 1917
 on the Steel Steamer "Mairna" (Number of Visits 106) } Gross
 Tons } Net
 Built at St Glasgow By whom built Russell & Co When built 1917
 Made at Greenock By whom made John B Kincaid & Co When made 1917
 Made at Greenock By whom made John B Kincaid & Co When made 1917
 Indicated Horse Power _____ Owners _____ Port belonging to Liverpool

Kincaid & Co

TITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY—Manufacturers of Steel Cochrane & Sons
 for record 2 Total Heating Surface of Boilers 5500 sq ft Is forced draft fitted Yes No. and Description of
One Single Ended Working Pressure 200 lb Tested by hydraulic pressure to 400 lb Date of test 2/5/17
 Certificate 1296 Can each boiler be worked separately Yes Area of fire grate in each boiler 61.5 sq ft No. and Description of
 Calves to each boiler Two Spring Area of each calve 7.07 sq ft Pressure to which they are adjusted 205 lb
 fitted with casing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler _____
 Distance between boilers or uptakes and bunkers or woodwork 30 Mean dia. of boilers 17:0 Length 12:0
 Material of shell plates Mild Thickness 1 1/2 Range of tensile strength 29/33 Are the shell plates welded or flanged _____
 Riveting: cir. seams _____ long. seams all chip steel Diameter of rivet holes in long. seams 1 7/32 Pitch of rivets 10 1/2
 plates or width of butt straps 22 1/2 Per centages of strength of longitudinal joint rivets 87.0 Working pressure of shell by
208 lb Size of manhole in shell 16" x 12" Size of compensating ring Flanged 1 1/2 No. and Description of Furnaces in each
4 Brighton Material Mild Outside diameter 45 1/2 Length of plain part top _____ bottom _____ Thickness of plates crown 10 1/16
 bottom _____
 Position of longitudinal joint welded No. of strengthening rings None Working pressure of furnace by the rules 223 lb Combustion chamber
 Material Mild Thickness: Sides 1 1/16 Back 2 1/32 Top 1 1/16 Bottom 1 3/16 Pitch of stays to ditto: Sides 9 1/2" x 9 1/2" Back 8 1/2" x 8 1/2"
2 1/2" x 8 1/2" If stays are fitted with nuts or riveted heads None Working pressure by rules 202 lb Material of stays Same Diameter at
 top part 2.03" Area supported by each stay 810" Working pressure by rules 208 lb End plates in steam space: Material Mild Thickness 1 7/16
 of stays 23" x 2 1/4" How are stays secured all nut Working pressure by rules 201 lb Material of stays Mild Diameter at smallest part 9.82"
 supported by each stay 486" Working pressure by rules 211 lb Material of Front plates at bottom Mild Thickness 1 1/16 Material of
 back plate Mild Thickness 2 9/32 Greatest pitch of stays 14" Working pressure of plate by rules 208 lb Diameter of tubes 3"
 of tubes 4 1/16" x 4 1/16" Material of tube plates Mild Thickness: Front 1 1/16 Back 2 7/32 Mean pitch of stays 8 1/16" x 8 1/16" Pitch across wide
 spaces 14" Working pressures by rules 207 lb Girders to Chamber tops: Material Mild Depth and thickness of
 at centre 11 1/2" x 1 3/8" Length as per rule 40.46 Distance apart 8 1/2" Number and pitch of Stays in each Same 9 1/2"
 Working pressure by rules 207 lb Superheater or Steam chest: how connected to boiler _____ Can the superheater be shut off and the boiler worked
 independently _____
 Diameter _____ Length _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet
 Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____
 strengthened 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 casing gear _____

The foregoing is a correct description,
FOR JOHN G. KINCAID & COY., LIMITED.

Robert Green Manufacturer.

Secretary.

Is the approved plan of boiler forwarded herewith yes

Total No. of visits _____

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

This main boiler has been constructed under special survey in accordance with the approved plans first tested by hydraulic pressure and efficiently fitted on board the above named steamer.

See 1st entry report attached hereto.

Survey Fee ... £ _____ : _____ : _____ When applied for, 191.....
 Travelling Expenses (if any) £ ✓ : _____ : _____ When received, 191.....

James Jones © 2020
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 10 JUL 1917

See accompanying mach^y report.



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