

REPORT ON BOILERS.

No. 15067
THU. FEB. 11. 1915

Received at London Office

Date of writing Report 30 Jan 1915 When handed in at Local Office 3 Feb 1915 Port of West Hartlepool
 No. in Survey held at West Hartlepool Date, First Survey 3rd Sept. 1914 Last Survey 2 Dec 1915
 Reg. Book. on the Steel Steamer "Girfield" (Number of Visits 49) Tons } Gross 1028.74
 Net 2520.27
 Master W. Clarke Built at West Hartlepool By whom built W. Gray & Co. Ltd When built 1915
 Engines made at West Hartlepool By whom made Central Marine & Works When made 1915
 Boilers made at West Hartlepool By whom made Central Marine & Works When made 1915
 Registered Horse Power Owners Soughby Shipping Co. Ltd. Port belonging to West Hartlepool

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel & Copper Iron

(Letter for record R) Total Heating Surface of Boilers 1217 sq ft Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 19/1/14
 No. of Certificate 3390 Can each boiler be worked separately yes Area of fire grate in each boiler 32.4 sq ft No. and Description of safety valves to each boiler Two Spring Area of each valve 7.07 sq in Pressure to which they are adjusted 185 lb
 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 in Mean dia. of boilers 12.0 in Length 10.0 in
 Material of shell plates Steel Thickness 1 1/2 in Range of tensile strength 27-30 Are the shell plates welded or flanged both
 Descrip. of riveting: cir. seams no long. seams all shop rivets Diameter of rivet holes in long. seams 1 1/4 in Pitch of rivets 7/8 in
 Lap of plates or width of butt straps 15 1/4 in Per centages of strength of longitudinal joint rivets 88% plate 85.3% Working pressure of shell by rules 182 lb Size of manhole in shell 16" x 12" Size of compensating ring 32" x 28" x 1 1/2 in No. and Description of Furnaces in each boiler Two bright iron Material Steel Outside diameter 44 5/8 in Length of plain part 17 1/2 in Thickness of plates 1 1/2 in
 Description of longitudinal joint beaded No. of strengthening rings Cony Working pressure of furnace by the rules 183 lb Combustion chamber plates: Material Steel Thickness: Sides 10/16 in Back 10/16 in Top 10/16 in Bottom 13/16 in Pitch of stays to ditto: Sides 8 1/4 in Back 8 1/4 in Top 8 1/4 in Bottom 8 1/4 in
 Top 8 1/4 in If stays are fitted with nuts or riveted heads no Working pressure by rules 181 lb Material of stays Steel Diameter at smallest part 1 5/8 in Area supported by each stay 8 1/4 in Working pressure by rules 211 lb End plates in steam space: Material Steel Thickness 1 in
 Pitch of stays 16" x 15 1/2 in How are stays secured All nut Working pressure by rules 182 lb Material of stays Steel Diameter at smallest part 2 1/4 in
 Area supported by each stay 16" x 15 1/2 in Working pressure by rules 191 lb Material of Front plates at bottom Steel Thickness 1 in Material of Lower back plate Steel Thickness 1 1/4 in Greatest pitch of stays 13 1/2 in Working pressure of plate by rules 180 lb Diameter of tubes 3 1/2 in
 Pitch of tubes 4 1/2 in Material of tube plates Steel Thickness: Front 1 in Back 1 1/4 in Mean pitch of stays 9 in Pitch across wide water spaces 14 1/4 in Working pressures by rules 189 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 7 1/4 in Length as per rule 25 1/2 in Distance apart 8 1/2 in Number and pitch of Stays in each Cony 8 1/4 in
 Working pressure by rules 182 lb Superheater or Steam chest; how connected to boiler 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 Are they fitted with easing gear

FOR THE CENTRAL MARINE ENGINE WORKS,
 The foregoing is a correct description,
 J. Saunders, Esq. Manufacturer.

Dates of Survey } During progress of } 1914 Sep 3. 8. 11. 14. 15. 17. 18. 21. 22. 23. 24 } Is the approved plan of boiler forwarded herewith yes
 while } work in shops } 25. 28. 29. 30 Oct 1. 2. 5. 8. 9. 10. 12. 14. 15. 16. 19. 20 }
 building } During erection on } 21. 22. 27. 28. 29. 30 Nov 2. 3. 4. 5. 6. 9. 11. 12. 13. 16. 18 } Total No. of visits 49
 board vessel } 19. 20. Dec 9. 1915: Feb 2

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

Workmanship Good.
This Auxiliary Boiler has been constructed under special survey in accordance with the approved Auto Print, tested by hydraulic pressure found tight and sound and has now been fitted in the Blue named vessel.

Survey Fee ... £ See Joint When applied for, ... 191
 Travelling Expenses (if any) £ Subj. Report When received, ... 191

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

Committee's Minute FRI. FEB. 12. 1915

Assigned

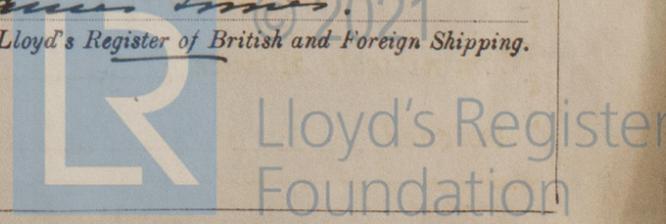


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