

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 Feb 1915

Reg. Book. on the steel steamer Girfield (Number of Visits 49) Tons { Gross 4028.74 Net 2520.2 }

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 Doughty 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 1217.4 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 19/11/14

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 ft 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 close Diameter of rivet holes in long. seams 1 1/16 in Pitch of rivets 7/16 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 in x 12 in Size of compensating ring 32 in x 28 in x 1 1/16 in No. and Description of Furnaces in each boiler Two bright iron Material steel Outside diameter 44 5/8 in Length of plain part top no Thickness of plates crown 1 7/16 in bottom no

Description of longitudinal joint welded No. of strengthening rings none 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 x 8 1/4 in Back 8 1/4 in x 8 1/4 in

Top 8 1/4 in x 8 1/4 in If stays are fitted with nuts or riveted heads none 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 x 8 1/4 in Working pressure by rules 211 lb End plates in steam space: Material steel Thickness 1 in

Pitch of stays 16 in 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 in 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 18 1/2 in Working pressure of plate by rules 180 lb Diameter of tubes 3 1/4 in

Pitch of tubes 4 1/2 in Material of tube plates steel Thickness: Front 1 in Back 12/16 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 x 1 1/4 in Length as per rule 25 7/8 in Distance apart 8 1/2 in Number and pitch of Stays in each two 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,

James L. Lums 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

{ work in shops -- 25. 28. 29. 30 Oct 1. 2. 5. 8. 9. 10. 12. 14. 15. 16. 19. 20

{ During erection on 21. 22. 27. 28. 29. 30 Nov 2. 3. 4. 5. 6. 9. 10. 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 Rules, tested by hydraulic pressure found tight and sound and has now been fitted in the blue named vessel.

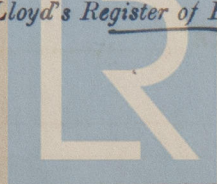
Survey Fee ... £ See Joint When applied for, 191

Travelling Expenses (if any) £ See Joint When received, 191

James L. Lums
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. FEB. 12. 1915

Assigned

Lloyd's Register
Foundation

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