

pt. 5a.

REPORT ON BOILERS.

No. 17426.

Site of writing Report 20th March, 1919. When handed in at Local Office 20th March, 1919. Port of Greenock Received at London Office WED. 26 MAR. 1919

No. in Survey held at Greenock Date, First Survey 30th Sept, 1918. Last Survey 20 March 1919

Reg. Book. on the main (Number of Visits 55.) } Gross
(Stock Exchange) } Net

Master Built By whom built When built

Engines made at By whom made When made

Boilers made at Greenock By whom made John S Kincaid & Co When made 1919

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Sheet Co. of Scotland, Glasgow

Letter for record 0 Total Heating Surface of Boilers 2253 sq ft Is forced draft fitted no No. and Description of Boilers One single ended Working Pressure 180 lb Tested by hydraulic pressure to 260 lb Date of test 20/3/19

No. of Certificate 1376 Can each boiler be worked separately Area of fire grate in each boiler 61.87 No. and Description of Safety valves to each boiler Two Spring Area of each valve 7.07 sq Pressure to which they are adjusted

Are they fitted with easing 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 Mean dia. of boilers 15.6 Length 10.6

Material of shell plates Steel Thickness 1 1/2 Range of tensile strength 28-32 Are the shell plates welded or flanged ✓

Description of riveting: cir. seams ✓ long. seams all chip steel Diameter of rivet holes in long. seams 1 5/16 Pitch of rivets 9/8

Top of plates or width of butt straps 19 1/2 Per-centages of strength of longitudinal joint rivets 88.22 Working pressure of shell by plate 85.61

Size of manhole in shell 16" x 12" Size of compensating ring None No. and Description of Furnaces in each boiler 3 Brighton Material Steel Outside diameter 49 1/2 Length of plain part top Thickness of plates crown bottom 37/64

Description of longitudinal joint welded No. of strengthening rings None Working pressure of furnace by the rules 185 lb Combustion chamber

Material: Material Steel Thickness: Sides 2 1/32 Back 2 1/32 Top 10/16 Bottom 12/16 Pitch of stays to ditto: Sides 10-7/8 Back 9 1/8-8 1/8

10-7/8 If stays are fitted with nuts or riveted heads None Working pressure by rules 180 lb Material of stays Steel Area at smallest part 1.79 sq Area supported by each stay 79 sq Working pressure by rules 200 lb End plates in steam space: Material Steel Thickness 19/32

How are stays secured all nuts Working pressure by rules 180 lb Material of stays Steel Area at smallest part 1126 sq

Area supported by each stay 430 sq Working pressure by rules 196 lb Material of Front plates at bottom Steel Thickness 1 Material of rear back plate Steel Thickness 1 1/2 Greatest pitch of stays 13 Working pressure of plate by rules 18 1/2 Diameter of tubes 5 1/2

Material of tube plates Steel Thickness: Front 1 Back 12/16 Mean pitch of stays 9 Pitch across wide spaces 14 Working pressures by rules 183 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 3/8 x 1 1/2 Length as per rule 32.59 Distance apart 7 7/8 Number and pitch of Stays in each Two 10

Working pressure by rules 217 lb Steam dome: description of joint to shell % of strength of joint

Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted Is Easing Gear fitted

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

progress of (1918) Sept. 30. Oct. 3. 7. 11. 16. 23. 31. Nov. 4. 7. 14. 18. 21. 26. Dec. 4. 5. Is the approved plan of boiler forwarded here Ditto

shops - - - 9. 11. 12. 13. 16. 17. 19. 23. 25. (1919) Jan. 8. 9. 13. 15. 17. 20. 22. 24. 29. 31.

erection on vessel - - - Feb. 3. 5. 7. 10. 11. 13. 14. 18. 20. 21. 24. 26. 28. Mar. 1. 3. 5. 7. 11. 13 Total No. of visits 55.

18. 20. -

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 Rules. Tested by hydraulic pressure and found light and sound. This boiler has been securely fitted on board S S Moain and tried under steam with satisfactory results. D.C. Barr.

Survey Fee £ 7 : 10 : When applied for, 20th March, 1919.

Travelling Expenses (if any) £ : When received, 14.4.19

Committee's Minute **GLASGOW 25 MAR 1918**

Transmit to London WYM

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 Engineer Surveyor to Lloyd's Register of Shipping.
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