Rpt. 5a.

REPORT ON BOILERS.

No. 17746

WED. NOV. 24 1920

Received at London Office

Date of writing Report 16 Nov 1920 When handed in at Local Office 19 Nov 1920 Port of Greenock

No. in Reg. Book. Survey held at Greenock Date, First Survey 17th June, 1920 Last Survey 15/11/20 1920

on the (Number of Visits 24.)

Master Built at By whom built Thompson Ltd. Tons Gross 10994. Net

Engines made at By whom made When built

Boilers made at Greenock By whom made John G Kincaid & Co Ltd When made 1920

Registered Horse Power Owners Port belonging to

RETAIN

Kincaid, fn 101

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel Jas Talbot Steel Co, Glasgow

(Letter for record S) **Total Heating Surface of Boilers** 4102 sq ft Is forced draft fitted No **No. and Description of Boilers** Two single ended **Working Pressure** 180 lb Tested by hydraulic pressure to 360 lb Date of test 18/11/20

No. of Certificate 1513 Can each boiler be worked separately yes. **Area of fire grate in each boiler** 112 ft No. and Description of safety valves to each boiler 2 Spring-loaded. Area of each valve 5.94 □" Pressure to which they are adjusted 180 lbs.

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". ~~Mean~~ Inr dia. of boilers 14:9 Length 10:6

Material of shell plates steel Thickness 13/16 Range of tensile strength 28/32 Are the shell plates welded or flanged –

Descrip. of riveting: ~~cir.~~ Inr seams all in lap long. seams all chip all Diameter of rivet holes in long. seams 13/16 Pitch of rivets 8 1/8

Lap of plates or width of butt straps 17 1/2 Per centages of strength of longitudinal joint rivets 85.3 plate 85.3 Working pressure of shell by rules 182 lb Size of manhole in ~~shell~~ End 16 : 12 Size of compensating ring Hanged **No. and Description of Furnaces in each boiler** 3 Deighton Material steel Outside diameter 44 1/2 Length of plain part top – bottom – Thickness of plates crown bottom 17/32

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 185 lb Combustion chamber plates: Material steel Thickness: Sides 25/32 Back 25/32 Top 25/32 Bottom 25/32 Pitch of stays to ditto: Sides 12:9 1/2 Back 11:10 1/2 Top 11:9 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 180 lb Material of stays steel Area at smallest part 309 □" Area supported by each stay 116 □" Working pressure by rules 240 lb End plates in steam space: Material steel Thickness 1 1/4 Pitch of stays 21 1/2 : 19 How are stays secured nuts Working pressure by rules 182 lb Material of stays steel Area at smallest part 10:12" Area supported by each stay 40 □" Working pressure by rules 260 lb Material of Front plates at bottom steel Thickness 13/16 Material of Lower back plate steel Thickness 15/16 Greatest pitch of stays 14 1/2 Working pressure of plate by rules 190 lb Diameter of tubes 3 1/2 Pitch of tubes 4 9/8 : 4 9/16 Material of tube plates steel Thickness: Front 13/16 Back 12/16 Mean pitch of stays 13 1/2 : 9 1/2 Pitch across wide water spaces 14 1/2 Smallest 10/16 Working pressures by rules 184 lb Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 1/2 : 2 Length as per rule 31 15/32 Distance apart 11 Number and pitch of Stays in each 2 - 9 1/2

Working pressure by rules 191 lb Steam dome: description of joint to shell % of strength of joint

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

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

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

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

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

RETAIN

Roll 25/11/20

The foregoing is a correct description,

FOR JOHN G. KINCAID & CO., LIMITED.

Manufacturer.

Dates of Survey while building: During progress of work in shops – – 1920. June 17. 21. 28. July 19. Aug. 18. 20. 27. Sept. 2. 7. 9. 14. During erection on board vessel – – – 17. 22. 23. 28. 30. Oct. 4. 8. 11. 21. 23. Nov. 3. 5. 18.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits 24.

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

These Boilers have been constructed under Special Survey in accordance with the approved Plans. Joint tested by hydraulic pressure and found good. They have now been forwarded to Southampton.

These boilers were tight & satisfactory under full steam. J.G.M.

Survey Fee ... ... £ 18 : 5 :

Travelling Expenses (if any) £ : :

When applied for, 24/11/1920

When received, 2/12/1920

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 23 NOV 1920

Assigned TRANSMIT TO LONDON

THU 24 FEB. 1922

FRI AUG. 11 1922

W367-0062

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