Rpt. 5a. Lab.

REPORT ON BOILERS.

No. 18599.

Received at London Office 8 SEP 1926

Date of writing Report 23/7/1926 When handed in at Local Office 26th Aug. 1926 Port of Greenock

No. in Reg. Book. Survey held at Greenock Date, First Survey 8th February, 1926. Last Survey 23rd Aug 1926.

on the S/S "Waipiata" (Number of Visits 53.) Tons { Gross / Net

Master Built at Glasgow By whom built Napier & Miller Ltd (258) When built 1926

Engines made at Greenock By whom made John G Kincaid & Co Ltd (631) When made 1926

Boilers made at ditto By whom made ditto (631) When made 1926

Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, [redacted].—Manufacturers of Steel Lanarkshire Steel Co of Scotland

(Letter for record S) **Total Heating Surface of Boilers** 5800 ☐ Is forced draft fitted Yes **No. and Description of Boilers** 2 Single Ended (2 SB) **Working Pressure** 200 Tested by hydraulic pressure to 350 Date of test 17-6-26

No. of Certificate 1428 Can each boiler be worked separately Yes **Area of fire grate in each boiler** 66 ☐ No. and Description of safety valves to each boiler Double Spring Area of each valve 9.62 □ Pressure to which they are adjusted 205

Are they fitted with easing gear Yes 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 24" Mean dia. of boilers 16'-0" Length 12'-2"

Material of shell plates S Thickness 1 7/16" Range of tensile strength 28/32 Are the shell plates welded or flanged —

Descrip. of riveting: cir. seams DR long. seams TR·DBS Diameter of rivet holes in long. seams 1 15/32" Pitch of rivets 10"

~~Lap of plates or~~ width of butt straps 21 5/8" Per centages of strength of longitudinal joint rivets 90.89 plate 86.3 % Working pressure of shell by rules 200 Size of manhole in shell 20½ × 16½" Size of compensating ring 34 × 32½ × 1½"

No. and Description of Furnaces in each boiler 3 Corrugated (3 CF) Material S Outside diameter 50¼" Length of plain part top / bottom ✓ Thickness of plates crown / bottom 21/32"

Description of longitudinal joint weld No. of strengthening rings — Working pressure of furnace by the rules 203 Combustion chamber plates: Material S Thickness: Sides 23/32" Back 23/32" Top 23/32" Bottom 7/8" Pitch of stays to ditto: Sides 9" × 10" Back 8 7/8" × 10"

Top 9" × 10" If stays are fitted with nuts or riveted heads Nuts. Working pressure by rules 203 Material of stays S Area at smallest part 203.236 □" Area supported by each stay 88.75 Working pressure by rules 205 End plates in steam space: Material S Thickness 1 3/16"

Pitch of stays 20" × 16" How are stays secured DN·W. Working pressure by rules 201. Material of stays S Area at smallest part 61 □

Area supported by each stay 320 □" Working pressure by rules 212 Material of Front plates at bottom S Thickness 1" Material of Lower back plate S Thickness 27/32" Greatest pitch of stays 14" Working pressure of plate by rules 205 Diameter of tubes 2½"

Pitch of tubes 3¾ × 3¾" Material of tube plates S Thickness: Front 1" Back 23/32" Mean pitch of stays 9.37 Pitch across wide water spaces 13½" Working pressures by rules 211. Girders to Chamber tops: Material S Depth and thickness of girder at centre 11 × 13/16 (2) Length as per rule 37.56 Distance apart 10" Number and pitch of Stays in each 3 at 9"

Working pressure by rules 218 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~~

The foregoing is a correct description,

FOR JOHN G. KINCAID & CO., LIMITED

Robert Greer. Manufacturer.

Dates of Survey while building { During progress of work in shops - - / During erection on board vessel - - - } See Machinery Report.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits 53

GENERAL REMARKS (*State quality of workmanship, opinions as to class, &c.*) These Boilers have been built under Special Survey in accordance with the approved plans & the workmanship & material are of good quality & they have now been securely fitted on board & are kept accompanied trial of the Machinery

Survey Fee ... ... £ : : } When applied for, ... 19.....

Travelling Expenses if any ... } When received, ... 19.....

Charged on Monthly Rept

Wm Gordon-Mitchell

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 7 - SEP 1926

Assigned +L.M.C. 8.26

Lloyd's Register Foundation

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