Rpt. 5a.

REPORT ON BOILERS.

No. 17575.

Received at London Office

Date of writing Report 21st Nov. 1919. When handed in at Local Office 29th Nov. 1919. Port of Greenock

No. in Reg. Book. Survey held at Greenock Date, First Survey 11th December, 1918 Last Survey 24th September, 1919.

(Number of Visits 37.) Tons { Gross 2554·22 / Net 1408·41

on the Steel Steamer "ROSEWORTH."

Master G. W. A. Marlow. Built at Port Glasgow By whom built Dunlop Bremner & Co When built 1919

Engines made at Port Glasgow By whom made Dunlop Bremner & Co When made 1919

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

Registered Horse Power 175·5. Owners The Robert Stanley Shipping Co Ltd. Port belonging to Newcastle-on-Tyne.

(Kincaid Boilers 1917)

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel Glasgow I. S. Co. Colville Son

(Letter for record S) **Total Heating Surface of Boilers** 4426 sq ft Is forced draft fitted No **No. and Description of Boilers** Two single ended **Working Pressure** 180 lbs. Tested by hydraulic pressure to 360 lbs Date of test 22/9/19

No. of Certificate 1404 Can each boiler be worked separately Yes. **Area of fire grate in each boiler** 62 sq ft No. and Description of safety valves to each boiler Two spring Area of each valve 5·29 Sq/inches Pressure to which they are adjusted 187 lbs.

Are they fitted with easing gear Yes. In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Cannot enter.

Smallest distance between boilers or uptakes and bunkers or woodwork 2'-6" ~~Mean~~ Inside dia. of boilers 15'-6" Length 10'-6"

Material of shell plates Steel Thickness 1¼" Range of tensile strength 28–32 Are the shell plates welded or flanged —

Descrip. of riveting: ~~Cir.~~ End seams double riveted long. seams double chain Diameter of rivet holes in long. seams 1¼" Pitch of rivets 8½"

Lap of plates or width of butt straps 18½" Per centages of strength of longitudinal joint rivets 85·9 plate 85·2 Working pressure of shell by rules 180 lbs Size of manhole in ~~shell~~ End 16"-12" Size of compensating ring Flanged **No. and Description of Furnaces in each boiler** 3 Fightons Material Steel Outside diameter 49¼" Length of plain part top — bottom — Thickness of plates crown 37/64" bottom

Description of longitudinal joint welded No. of strengthening rings Corrug Working pressure of furnace by the rules 185 lbs Combustion chamber plates: Material Steel Thickness: Sides 11/16" Back 11/16"-23/32" Top 11/16" Bottom 11/16" Pitch of stays to ditto: Sides 9¾"-9⅞" Back 10¼"-8¼" Top 9¾"-9⅞" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 185 lbs Material of stays Steel Area at smallest part 2·03" Area supported by each stay 94" Working pressure by rules 197 lbs End plates in steam space: Material Steel Thickness 15/16" Pitch of stays 22"-20½" How are stays secured Nuts & double nuts Working pressure by rules 180 lbs Material of stays Steel Area at smallest part 8·12" Area supported by each stay 451" Working pressure by rules 187 lbs Material of Front plates at bottom Steel Thickness 1½" Material of Lower back plate Steel Thickness 15/16" Greatest pitch of stays 13¾" Working pressure of plate by rules 228 lbs Diameter of tubes 3¼" Pitch of tubes 4½"-4⅝" Material of tube plates Steel Thickness: Front 1½" Back 13/16" Mean pitch of stays 11·12" Pitch across wide water spaces 14¼" Working pressures by rules 187 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8"-1¾" Length as per rule 32" Distance apart 9⅛" Number and pitch of Stays in each Tier 9¾" Working pressure by rules 184 lbs 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 & COY., LIMITED.

Robert Greer Manufacturer.

Dates of Survey while building: During progress of work in shops (1918 Dec. 11-12. (1919) Jan. 22. May 21-23-26-27. June 2-5-6-9-11-13-15. July 22-25-31. Aug 4-8-12-13-15-18-20-26. During erection on board vessel (1918 Dec. 18-20-26. Sept. 1-3-5-11-15-18-19-22-24.

Is the approved plan of boiler forwarded herewith Yes

Total No. of visits 37.

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

These main Boilers have been constructed under Special Survey and have been efficiently fitted on board the above named Steamer.

Survey Fee ... ... £ 8 : 6 : When applied for, 22nd Nov. 1919.

Travelling Expenses (if any) £ : : When received, 29th Nov. 1919.

James Innes + W. A. Morton

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 2 DEC 1919 WJM.

Assigned See accompanying machinery report.

[1m.1.16.—Copyable Ink.]

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