

## REPORT ON BOILERS.

No. 32830

Received at London Office MON. AUG. 22 1921

Date of writing Report 28/7/1921 When handed in at Local Office 28/7/1921 Port of Hull.

No. in Survey held at Hull. Date, First Survey 11.8.20 Last Survey 22-8-1921

Reg. Book. on the S.S. "KENRIX" (Number of Visits) Gross 692 Tons Net 317

Master Built at Selby. By whom built Buchanan & Co. When built 1921

Engines made at By whom made When made

Boilers made at Hull By whom made Jas. J. Holmes & Co. Ltd. No. 1341 When made 1921

Registered Horse Power Owners Port belonging to

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel D. Buchanan &amp; Co. Ltd. Inverness.

(Letter for record S.) Total Heating Surface of Boilers 1683 sq. ft. Is forced draft fitted No. and Description of Boilers One 6 ft. mult. Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 23/3/21

No. of Certificate 3474 Can each boiler be worked separately Area of fire grate in each boiler 48 sq. ft. No. and Description of safety valves to each boiler Two spring loaded Area of each valve 4.9 sq. in. Pressure to which they are adjusted 205 lbs.

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 8" Boiler layout. Mean dia. of boilers 13'-9" Length 10'-6"

Material of shell plates Steel Thickness 1 1/4" Range of tensile strength 28 to 32 TONS. Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams DRL. long. seams TRUBS. Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 8"

Top of plates or width of butt straps 18" Per centages of strength of longitudinal joint rivets 87 7/8 plate 85 7/8 Working pressure of shell by rules 201 lbs.

Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1 1/4" No. and Description of Furnaces in each boiler 2 Plain. Material Steel Outside diameter 3'-4 1/2" Length of plain part top 6'-7 3/4" bottom 3'-4 1/2" Thickness of plates crown 3 1/8" bottom 3 1/8"

Description of longitudinal joint Welded. No. of strengthening rings Working pressure of furnace by the rules 202 Combustion chamber plates: Material Steel Thickness: Sides 3 1/2" Back 3 1/2" Top 3 1/2" Bottom 3 1/2" Pitch of stays to ditto: Sides 8" x 10" Back 8" x 10"

Top 11" x 8" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 217 Material of stays Steel Area at smallest part 2.07 sq. ft. Area supported by each stay 80 sq. in. Working pressure by rules 225 End plates in steam space: Material Steel Thickness 1 1/2"

Pitch of stays 18" x 18" How are stays secured JN & W. Working pressure by rules 211 Material of stays Steel Area at smallest part 6.9 sq. ft.

Area supported by each stay 333 sq. in. Working pressure by rules 215 Material of Front plates at bottom Steel Thickness 1 1/2" Material of Lower back plate Steel Thickness 1 1/2" Greatest pitch of stays 13 3/4" x 9 1/2" Working pressure of plate by rules 217 Diameter of tubes 3 1/2"

Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 1 1/2" Back 1 1/2" Mean pitch of stays 11.8" Pitch across wide water spaces 14" Working pressures by rules 270 lbs.

Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 10 1/2" x 1 1/2" Length as per rule 2-10 1/2" Distance apart 11" Number and pitch of Stays in each 328"

Working pressure by rules 210 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 CHARLES J. HOLMES &amp; CO. LTD.

Manufacturer.

Dates of Survey During progress of work in shops - - - (See Machinery report) Is the approved plan of boiler forwarded herewith Yes.

while building During erection on board vessel - - - Total No. of visits

## GENERAL REMARKS (State quality of workmanship, opinions as to class, &amp;c.)

This boiler has been built under special survey & the materials & workmanship are good. On completion it was run in the vessel & the safety valves adjusted under steam. For notation see machinery report.

Survey Fee ... £ 11-4-0 When applied for, 28.7 19.21

Travelling Expenses (if any) £ : : When received, 30.7 19.21

Committee's Minute THE 30 AUG. 1921

Engineer Surveyor to Lloyd's Register of Shipping.

Assigned

Lloyd's Register  
Foundation