

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. S.S. "KENRIX" (Number of Visits) Gross 692 Tons Net 317
 Master Selby Built at Selby By whom built Johnstone & Co When built 1921
 Engines made at Hull By whom made Thos. J. Holmes & Co. Ltd. No. 1341 When made 1921
 Boilers made at Hull By whom made Thos. 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. Colville & Son, Inverness.

(Letter for record S.) Total Heating Surface of Boilers 1683 sq. ft. Is forced draft fitted No No. and Description of Boilers One 4 ft. mult. Working Pressure 200 Tested by hydraulic pressure to 400 Date of test 29/3/21
 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 lagged 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 1/2"
 Width of butt straps 18" Per centages of strength of longitudinal joint rivets 87% 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 6'-7 1/2" Thickness of plates crown 3/16" bottom 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 3/16" Back 3/16" Top 1/4" Bottom 3/16" 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. in. 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 DN&W. Working pressure by rules 211 Material of stays Steel Area at smallest part 6.9 sq. in.
 Area supported by each stay 333 sq. in. Working pressure by rules 215 Material of Front plates at bottom Steel Thickness 1 1/8" Material of Lower back plate Steel Thickness 1 1/8" Greatest pitch of stays 13 1/2" 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 1/8" Back 7/8" 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 & 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, &c.) This boiler has been built under special survey & the materials & workmanship are good. On completion it was carefully fitted 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 1/2

Committee's Minute THE 30 AUG. 1921
 Assigned _____

Harbottle 2020
 Engineer Surveyor to Lloyd's Register of Shipping.