

REPORT ON BOILERS.

No. 40686

Received at London Office

WED. 29 DEC. 1920

Date of writing Report ¹⁰ When handed in at Local Office 25-12-20 Port of Glasgow.

No. in Survey held at Glasgow Date, First Survey 25-11-19 Last Survey 22nd Dec 1920

Reg. Book. on the S.S. "Dramatist" (Number of Visits 7³) Gross 580⁶ Tons Net 367⁰

Master Built at Glasgow By whom built C. Connell & Co. S.S. No 483 When built 1920.

Engines made at Glasgow By whom made J. Brown & Co & Dunsmuir & Jackson No 483 When made 1920.

Boilers made at Glasgow By whom made Dunsmuir & Jackson When made 1920

Registered Horse Power Owners Charante Steamship Co Ltd. Port belonging to Liverpool.

MULTITUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Steel Co of Scotland, J. Spence & Co.

(Letter for record S) Total Heating Surface of Boilers 1488^{sq ft} Is forced draft fitted No No. and Description of Boilers 1 Single ended Multitubular Working Pressure 200 lbs Tested by hydraulic pressure to 350 lbs Date of test 1-7-20

No. of Certificate 15368 Can each boiler be worked separately Area of fire grate in each boiler 53.625^{sq ft} No. and Description of safety valves to each boiler Two spring loaded Area of each valve 5.9^{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 18" Mean dia. of boilers 13'-3" Length 10'-9"

Material of shell plates S Thickness 1 1/32" Range of tensile strength 28/32 lbs Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams L.D.R. long. seams T.P.D.S. Diameter of rivet holes in long. seams 13/8" Pitch of rivets 9 5/8"

lap of plates width of butt straps 20 1/2" Per centages of strength of longitudinal joint rivets 85.2 Working pressure of shell by rules 229 Size of manhole in shell 16" x 12" Size of compensating ring 7 1/4" x 1 1/2" No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 43" Length of plain part top 19 1/32" bottom 19 1/32"

Description of longitudinal joint Weld No. of strengthening rings None Working pressure of furnace by the rules 220 Combustion chamber plates: Material S Thickness: Sides 3/4" Back 3/4" Top 3/4" Bottom 13/16" Pitch of stays to ditto: Sides 10 1/4" x 8 1/2" Back 9 3/4" x 9"

Top C = 9 1/2" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 201 Material of stays S Area at smallest part 1.98 Area supported by each stay 88.9 Working pressure by rules 201 End plates in steam space: Material S Thickness 1 3/16"

Pitch of stays 18 1/4" x 16 1/4" How are stays secured S nuts Working pressure by rules 206 Material of stays S Area at smallest part 6.9

Area supported by each stay 305.6 Working pressure by rules 235 Material of Front plates at bottom S Thickness 1 1/8" Material of Lower back plate S Thickness 3/32" Greatest pitch of stays 14 3/4" x 9" Working pressure of plate by rules 217 Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" x 4 1/16" Material of tube plates S Thickness: Front 1 1/8" Back 27/32" Mean pitch of stays 10 1/16" Pitch across wide water spaces 14 1/4" Working pressures by rules 222 Girders to Chamber tops: Material S Depth and thickness of girder at centre 9 x 1 7/8" Length as per rule 31 13/32" Distance apart W 8 1/16" C 9 1/2" Number and pitch of Stays in each C = 3 @ 8"

Working pressure by rules 204 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 Schmidt Date of Approval of Plan Safety of Rpt attached Tested by Hydraulic Pressure to 400 lbs

Date of Test 19-11-20 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 2" Pressure to which each is adjusted 210 lbs Is Easing Gear fitted Yes

DUNSMUIR & JACKSON, Limited.
The foregoing is a correct description,
James Fletcher, Manufacturer.

Dates of Survey } During progress of } See attached } Is the approved plan of boiler forwarded herewith } Yes
while } work in shops - - } Machinery Report. }
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 and in accordance with the rules, the workmanship and materials are sound & good on completion it was tested by water pressure to 350 lbs per sq inch and found tight & satisfactory in all respects, it has been fitted on board in an efficient manner tried under steam found satisfactory.

Survey Fee ... £ charged When applied for, 19

Travelling Expenses (if any) £ on March? When received, 19

Committee's Minute Glasgow 28 DEC 1920

Assigned See attached machinery report.

J. S. Little, Engineer Surveyor to Lloyd's Register of Shipping.

