

## REPORT ON BOILERS.

No. 42799

Received at London Office WED. JUN. 20 1923

Date of writing Report 19 When handed in at Local Office 11. 6. 23 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 16th Sept 1920 Last Survey 14 Feb 1922

Reg. Book. on the *An Receiver for M. S. Dalgoman* (Number of Visits ) Gross Tons } Net

Master Built at Glasgow By whom built *Stephen & Sons No 497* When built

Engines made at Glasgow By whom made *Stephen & Sons No 497* When made

Boilers made at Glasgow By whom made When made

Registered Horse Power Owners Port belonging to

*Starting An Receiver*  
 MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel *Steel Co of Scotland.*

(Letter for record ) Total Heating Surface of Boilers Is forced draft fitted No. and Description of  
*Receiver* *4 Cylindrical* Working Pressure *600* Tested by hydraulic pressure to *950 lbs* Date of test *7-10-1922*

No. of Certificate *16002* Can each boiler be worked separately ☒ Area of fire grate in each boiler ☒ No. and Description of  
*16006* safety valves to each boiler *1 pair Spring loaded* Area of each valve *1"* Pressure to which they are adjusted *605 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 ☒ dia. of boilers *30"* Length *over shell 10'-0"*  
*over ends 11'-5"*

Material of shell plates *S* Thickness *7/8"* Range of tensile strength *28,320 lbs* Are the shell plates welded or flanged *No*

Descrip. of riveting: cir. seams *L.D.R.* long. seams *T.R. 5/16"* Diameter of rivet holes in long. seams *1 1/8"* Pitch of rivets *5 1/8"*

Lap of plates or width of butt straps *17 1/4"* Per centages of strength of longitudinal joint rivets *93.3%* Working pressure of shell by  
*705 lbs* rules *16x12"* Size of compensating ring ☒ plate *80%*

No. and Description of Furnaces in each  
 boiler ☒ Material ☒ Outside diameter ☒ Length of plain part ☒ Thickness of plates ☒ crown ☒ bottom ☒

Description of longitudinal joint ☒ No. of strengthening rings ☒ Working pressure of furnace by the rules ☒ Combustion chamber

plates: Material ☒ Thickness: Sides ☒ Back ☒ Top ☒ Bottom ☒ Pitch of stays to ditto: Sides ☒ Back ☒

Top ☒ If stays are fitted with nuts or riveted heads ☒ Working pressure by rules ☒ Material of stays ☒ Area at  
 smallest part ☒ Area supported by each stay ☒ Working pressure by rules ☒ End plates in steam space: Material ☒ Thickness ☒

Pitch of stays ☒ How are stays secured ☒ Working pressure by rules ☒ Material of stays ☒ Area at smallest part ☒

Area supported by each stay ☒ Working pressure by rules ☒ Material of Front plates at bottom ☒ Thickness ☒ Material of

Lower back plate ☒ Thickness ☒ Greatest pitch of stays ☒ Working pressure of plate by rules ☒ Diameter of tubes ☒

Pitch of tubes ☒ Material of tube plates ☒ Thickness: Front ☒ Back ☒ Mean pitch of stays ☒ Pitch across wide

water spaces ☒ Working pressures by rules ☒ Girders to Chamber tops: Material ☒ Depth and thickness of

girder at centre ☒ Length as per rule ☒ Distance apart ☒ Number and pitch of Stays in each ☒

Working pressure by rules ☒ 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 *S* Thickness *1 1/16"* How stayed *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 ☒

FOR  
 ALEXANDER STEPHEN & SONS, LIMITED.

The foregoing is a correct description,

*J. W. S. Dalgoman* Secretary.

Dates of Survey } During progress of *See accompanying* Is the approved plan of boiler forwarded herewith  
 while } work in shops - - }  
 building } During erection on }  
 board vessel - - }

*Machinery report.* Total No. of visits

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) *These Receivers have been built under*  
*Special Survey and in accordance with the approved plan and Rules, the*  
*materials and workmanship are sound and good; on completion they were tested*  
*by water pressure to 950 lbs and found satisfactory in all respects.*  
*These receivers have been satisfactorily fitted on board the above*

Survey Fee ... £ 8 : 8 : } When applied for, *14. 6. 23* sent *Glas Report No 42799.*  
 Travelling Expenses (if any) £ : : } When received, *3. 8. 23*

Committee's Minute **GLASGOW 19 JUN 1923**

Assigned *See accompanying mach report.*

*John Miller* *Jas Cairns*  
 Engineer Surveyor to Lloyd's Register of Shipping

W313-0162

Lloyd's Register  
 Foundation