

# 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 14th Feb 19 22  
 Reg. Book. on the As Receivors 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 As Receivors  
**MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel Steel Co of Scotland.

(Letter for record Reservoirs) Total Heating Surface of Boilers 4 Cylindrical Is forced draft fitted - No. and Description of Boilers 7-10-137-14  
 Working Pressure 600 Tested by hydraulic pressure to 950 lbs Date of test Feb 1922  
 No. of Certificate 16002 Can each boiler be worked separately ✓ Area of fire grate in each boiler ✓ No. and Description of safety valves to each boiler pair Spring loaded Area of each valve 1"² Pressure to which they are adjusted 605 lbs  
 Are they fitted with easing gear ✓ 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 ✓ INT dia. of boilers 30" Length over shell 10'-0"  
 Material of shell plates S Thickness 7/8" Range of tensile strength 28320 lbs Are the shell plates welded or flanged No  
 Descrip. of riveting: cir. seams L.D.R. long. seams T.R. All Straps 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 rules 705 lbs Size of manhole in Indelate 16x12" Size of compensating ring ✓ plate 80.0%  
**No. and Description of Furnaces in each boiler**  
 ✓ Material ✓ Outside diameter ✓ Length of plain part top ✓ Thickness of plates crown ✓ bottom ✓ 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 3/16" How stayed Stiched

**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. M. Dalgoman Secretary/Manufacturer.

Dates of Survey See accompanying Is the approved plan of boiler forwarded herewith ✓  
 while building Machinery report. Total No. of visits -

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) These Receivors 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 vessel.

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

Committee's Minute GLASGOW 19 JUN 1923 W. Miller Engineer Surveyor to Lloyd's Register of Shipping.  
 Assigned See accompanying mach report. TUE JUL 31 1923



W313-0162