

REPORT ON BOILERS.

No. 27811.

Received at London Office WED. 9 JUN 1909

Date of writing Report 19 When handed in at Local Office 4/6/1909 Port of Glasgow
 Description of Safety No. in Survey held at Glasgow Date, First Survey 25th March 1908 Last Survey 26th May 1909
 Reg. Book. H Sup. on the R. M. S. "Otway". Single Ended main Boilers Tons } Gross 19077.25
 Master J. J. Symons Built at Glasgow By whom built Fairfield & B & C^o Ltd. When built 1909 } Net 6689.75
 Rivets Engines made at Glasgow By whom made Fairfield & B & C^o Ltd. when made 1909
 Plates Boilers made at do By whom made do when made 1909
 Registered Horse Power Owners Orient Steam Nav^o Ltd Port belonging to

MULTITUBULAR BOILERS - MAIN, ~~AUXILIARY OR DONKEY.~~ Manufacturers of Steel W. Beardmore & Co.

(Letter for record (S)) Total Heating Surface of Boilers See Rpt. 4 Is forced draft fitted Yes No. and Description of Boilers Two Single Ended Working Pressure 215 Tested by hydraulic pressure to 430 Date of test 27/8/08
 No. of Certificate 9661 Can each boiler be worked separately Yes Area of fire grate in each boiler 72^{sq} No. and Description of safety valves to each boiler 2 Lockburn Area of each valve 8.296 Pressure to which they are adjusted 220
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No
 Smallest distance between boilers or uptakes and bunkers or woodwork abt 12" Mean dia. of boilers 16.6" Length 11.3"
 Material of shell plates steel Thickness 1 1/2" Range of tensile strength 31 to 34 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams D. R. L. long. seams D. B. S. Diameter of rivet holes in long. seams 1 1/32" Pitch of rivets 10"
 Lap of plates or width of butt straps 22 3/4" Per centages of strength of longitudinal joint rivets 96 plate 83.4375 Working pressure of shell by rules 240
 Size of manhole in shell 16 x 12 Size of compensating ring 2 1/2" No. and Description of Furnaces in each boiler 4 Morrison Material steel Outside diameter 43 1/2" Length of plain part top Thickness of plates crown 5/8" bottom
 Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 230 Combustion chamber plates: Material steel Thickness: Sides 3/8" Back 5/8" Top 3/8" Bottom 15/16" Pitch of stays to ditto: Sides 7 1/8" Back 7 1/8"
 Top 7 1/8" If stays are fitted with nuts or riveted heads none Working pressure by rules 217 Material of stays steel Diameter at smallest part 1.76 Area supported by each stay 6.2 Working pressure by rules 227 End plates in steam space: Material steel Thickness 1 3/32" area
 Pitch of stays 15 1/2" How are stays secured D. Nut Working pressure by rules 223 Material of stays steel Diameter at smallest part 5.79
 Area supported by each stay 240 Working pressure by rules 250 Material of Front plates at bottom steel Thickness 13/16" Material of Lower back plate steel Thickness 1 1/16" Greatest pitch of stays 13 3/8" Working pressure of plate by rules 240 Diameter of tubes 2 1/2"
 Pitch of tubes 3 3/4" Material of tube plates steel Thickness: Front 2 3/32" Back 2 3/32" Mean pitch of stays 8.4 Pitch across wide water spaces 13 1/2" Working pressures by rules 260 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 7/8 x 3/4 x 3 Length as per rule 31 Distance apart 7 7/8" Number and pitch of Stays in each 3 - 7 7/8"
 Working pressure by rules 220 Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked separately
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed
 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

THE FAIRFIELD SHIPBUILDING AND ENGINEERING CO. LTD. The foregoing is a correct description, Alex. Cleghorn MANAGER Manufacturer.

Dates of Survey During progress of work in shops - - - See Accompanying 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.) These boilers have been constructed under Special Survey & are of good materials & workmanship. They have been fitted on board as stated Rpt. 4.

Survey Fee ... £ See Main Report. When applied for. 19.
 Travelling Expenses (if any) £ When received. 19.

H Gardner-Smith
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 8 JUN. 1909

Assigned See minute on accompanying report

