

REPORT ON BOILERS.

No. 27199.

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Date of writing Report 4th Nov. 1908 When handed in at Local Office 6/11/1908 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 5th Sept. 1907 Last Survey 5th Nov. 1908
 Reg. Book. on the T. S. S. "Morea" (Number of Visits 94) } Gross Tons } Net
 Master Built at Glasgow By whom built Barclay Curle & Co Ltd When built 1908
 Engines made at Glasgow By whom made Barclay Curle & Co Ltd (No 471) when made 1908
 Boilers made at Do By whom made Do (No 471) when made 1908
 Registered Horse Power Owners P. O. Ste. Nav. Co Port belonging to Glasgow

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Beardmore & Colville

(Letter for record S.) Total Heating Surface of Boilers Is forced draft fitted Yes No. and Description of Boilers 4 Single ended Working Pressure 215 lb Tested by hydraulic pressure to 430 lb Date of test 24.4.08
 No. of Certificate 9501 Can each boiler be worked separately Yes Area of fire grate in each boiler 58.4 sq ft No. and Description of safety valves to each boiler double spring loaded Area of each valve 8.29 sq in Pressure to which they are adjusted 220 lb
 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 21" Mean dia. of boilers 14.8" Length 11.6 1/4"
 Material of shell plates Steel Thickness 1 1/2" Range of tensile strength 30/33 ton Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams D. & T. R. long. seams T. R. & D. B. S Diameter of rivet holes in long. seams 1 9/16" Pitch of rivets 10 1/16"
 Lap of plates or width of butt straps 22 3/4" Per centages of strength of longitudinal joint rivets 93.6 Working pressure of shell by rules 84.5
 rules 249 lb Size of manhole in shell 16" x 12" Size of compensating ring 2.6 x 3.5" No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 3.94" Length of plain part top 32" Thickness of plates crown 1 1/2" bottom 3/4"
 Description of longitudinal joint weld No. of strengthening rings 1 Working pressure of furnace by the rules 234 Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 21/32" Bottom 3/4" Pitch of stays to ditto: Sides 7 1/2" x 7 3/4" Back 8" x 7 1/16"
 Top 8" x 8 1/4" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 225 Material of stays Steel Diameter at smallest part 1.73" Area supported by each stay 66 sq in Working pressure by rules 215 End plates in steam space: Material Steel Thickness 1 5/32"
 Pitch of stays 17" x 15 3/4" How are stays secured D. nuts Working pressure by rules 223 Material of stays Steel Diameter at smallest part 6.66"
 Area supported by each stay 267.75 sq in Working pressure by rules 259 Material of Front plates at bottom Steel Thickness 1 3/16" Material of Lower back plate Steel Thickness 1 3/8" Greatest pitch of stays 13 1/2" x 8" Working pressure of plate by rules 355 Diameter of tubes 2 1/2"
 Pitch of tubes 3 3/4" x 3 3/4" Material of tube plates Steel Thickness: Front 1 5/32" Back 3/4" Mean pitch of stays 7 1/2" Pitch across wide water spaces 13 1/2" Working pressures by rules 262 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 11" x 2 @ 3/4" Length as per rule 2.8 3/4" Distance apart 8 1/4" Number and pitch of Stays in each 3 @ 8"
 Working pressure by rules 266 Superheater or Steam chest; how connected to boiler 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 foregoing is a correct description,
James Gilchrist Director Manufacturer.

Is the approved plan of boiler forwarded herewith Yes
 Total No. of visits 94

Dates of Survey } During progress of work in shops - - }
 while building } During erection on board vessel - - }
See accompanying report.

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

For remarks please see Rpt. 4.

[Signature]

Survey Fee ... £ : : } When applied for, 19.....
 Travelling Expenses (if any) £ : : } When received, 19.....

A. S. Thomas James Morrison
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 17 NOV. 1908

Assigned See minute on accompanying report.

