

REPORT ON BOILERS.

No. 62034
WED. APR. 3-1912

Received at London Office

Date of writing Report 20th March 1912 When handed in at Local Office 20th March 1912 Port of Newcastle on Tyne
 No. in Survey held at South Shields Date, First Survey 5th Sept. 1911 Last Survey 19th March 1912
 Reg. Book. 96 on the S. S. Seaborough (Number of Visits 340)
 Master Coole Built at Coole By whom built Coole S.S. Co. (No. 148) When built 1912
 Engines made at By Shields By whom made Shields Engineering Co when made 1912
 Boilers made at Shields By whom made J. Cunningham & Co (No. 1723) when made 1912
 Registered Horse Power R. R. Chester Port belonging to Middlesbrough

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Spencer & Son Ltd

(Letter for record S) Total Heating Surface of Boilers 1187 sq ft Is forced draft fitted No. No. and Description of Boilers One, Single Ended Working Pressure 130 lb Tested by hydraulic pressure to 260 lb Date of test 17/11/11.
 No. of Certificate 8238. Can each boiler be worked separately ✓ Area of fire grate in each boiler 35 sq ft No. and Description of safety valves to each boiler Two, Spring loaded Area of each valve 2.91 sq in Pressure to which they are adjusted 135 lb per sq in.
 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 10" Inside dia. of boilers 12-4 1/16" Length 10'-0"
 Material of shell plates Steel Thickness 25/32" Range of tensile strength 29/33 tons are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams 2 R. Lap long. seams 4 R. Butt Diameter of rivet holes in long. seams 7/8" Pitch of rivets 5 3/8"
 Lap of plates or width of butt straps 13 1/2" Per centages of strength of longitudinal joint rivets 85-2 Working pressure of shell by rules 134 lb Size of manhole in shell 16" x 12" Size of compensating ring 30 x 26 x 25/32 No. and Description of Furnaces in each boiler Two, plain Material Steel Outside diameter 47" Length of plain part 77" Thickness of plates crown 21/32" bottom 23/8"
 Description of longitudinal joint Welded No. of strengthening rings one T Working pressure of furnace by the rules 134 Combustion chamber plates: Material Steel Thickness: Sides 19/32" Back 19/32" Top 19/32" Bottom 3/4" Pitch of stays to ditto: Sides 6 x 9" Back 10 x 9 1/4"
 Top 10 x 9 1/4" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 131 Material of stays Steel Diameter at smallest part 1 1/8" Area supported by each stay 115 sq in Working pressure by rules 140 End plates in steam space: Material Steel Thickness 15/16"
 Pitch of stays 18 x 17" How are stays secured Druts Working pressure by rules 135 Material of stays Steel Diameter at smallest part 3 7/16"
 Area supported by each stay 306 sq in Working pressure by rules 131 Material of Front plates at bottom Steel Thickness 7/8" Material of Lower back plate Steel Thickness 25/32" Greatest pitch of stays 15 x 9 1/4" Working pressure of plate by rules 135 Diameter of tubes 3 1/2"
 Pitch of tubes 4 3/4" Material of tube plates Steel Thickness: Front 7/8" Back 23/32" Mean pitch of stays 11 7/8" Pitch across wide water spaces 14 1/2" Working pressures by rules 130 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 3/4 x 1 1/2" Length as per rule 30 1/4" Distance apart 9 1/4" Number and pitch of Stays in each Two, 10"
 Working pressure by rules 133 lb 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 foregoing is a correct description,

J. J. Cunningham Manufacturer.

Dates of Survey During progress of work in shops - - - 1911 Sept. 5-7-25, Oct. 5-12-16-19-25-31, Nov. 9-13-17, 1912 Jan. 4-10-19. Is the approved plan of boiler forwarded herewith Yes - Invoices
 while building During erection on board vessel - - - See Under Report Total No. of visits 184

GENERAL REMARKS

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

This boiler has been built under special survey, the materials and workmanship are of good quality, and on completion was tested by hydraulic pressure to 260 pounds per square inch and was found tight and sound at that pressure. This boiler has now been efficiently secured on board.

Survey Fee to be charged to Engine Builder When applied for. 19.
 Travelling Expenses (if any) £ When received. 19.

George Murdoch
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. APR. 26. 1912

Assigned

See Minute on
 Inv. Rpt. 62034 attached

Lloyd's Register
 Foundation
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