

Rpt. 5.

REPORT ON BOILERS.

No. 51123.

MON. 13 AUG 1906

Port of Newcastle on Tyne
 Received at London Office
 No. in Survey held at Newcastle Date, first Survey 14 August 1906
 Reg. Book. 14 August 1906 Last Survey 14 August 1906
 on the Clue S.S. Braunfels (Number of Visits 1)
 Master Newcastle Built at Newcastle By whom built Swan Hunter & W Richardson Ltd When built 1906
 Engines made at Newcastle By whom made Swan Hunter & W Richardson Ltd when made 1906
 Boilers made at D By whom made D when made 1906
 Registered Horse Power Messrs The Hansa Co. Port belonging to Bremen

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ **DONKEY.**—Manufacturers of Steel Spencer & Son
 (Letter for record ☒) **Total Heating Surface of Boilers** 1045 sq ft Is forced draft fitted No **No. and Description of Boilers** The Clue S.S.
Working Pressure 120 Tested by hydraulic pressure to 240 Date of test 18-6-06
No. of Certificate 7254 Can each boiler be worked separately ☒ **Area of fire grate in each boiler** 460 **No. and Description of safety valves to each boiler** 2 Spring
Area of each valve 7-06 **Pressure to which they are adjusted** 125
 Are they fitted with easing gear No 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 2-6 **Mean dia. of boilers** 12-0 **Length** 10-0
Material of shell plates S **Thickness** 25/32 **Range of tensile strength** 28/32 **Are the shell plates welded or flanged** No
Descrip. of riveting: cir. seams d lap **long. seams** d chap **Diameter of rivet holes in long. seams** 7/8 **Pitch of rivets** 5 1/2
Lap of plates or width of butt straps 13 3/4 **Per centages of strength of longitudinal joint** 83 **Working pressure of shell by rules** 132
Size of manhole in shell 16 x 12 **Size of compensating ring** 7 1/2 x 25/32 **No. and Description of Furnaces in each boiler** 3 Plain
Material S **Outside diameter** 38 5/8 **Length of plain part** 76 **Thickness of plates** 5/8
Description of longitudinal joint d chap **No. of strengthening rings** ☒ **Working pressure of furnace by the rules** 133 **Combustion chamber plates: Material** S
Thickness: Sides 1/2 **Back** 1/2 **Top** 1/2 **Bottom** 3/4 **Pitch of stays to ditto: Sides** 7 3/4 x 7 3/4 **Back** 7 3/4 x 7 3/4
Top 7 3/4 x 7 3/4 **If stays are fitted with nuts or riveted heads** No **Working pressure by rules** 128 **Material of stays** Iron **Diameter at smallest part** 1-19
Area supported by each stay 60 **Working pressure by rules** 120 **End plates in steam space: Material** S **Thickness** 3/4
Pitch of stays 14 7/8 x 14 7/8 **How are stays secured** d & w **Working pressure by rules** 141 **Material of stays** S **Diameter at smallest part** 3-26
Area supported by each stay 221 **Working pressure by rules** 147 **Material of Front plates at bottom** S **Thickness** 15/16 **Material of Lower back plate** S
Thickness 3/16 **Greatest pitch of stays** d & w **Working pressure of plate by rules** 120 **Diameter of tubes** 3 1/2
Pitch of tubes 4 1/2 x 4 5/8 **Material of tube plates** S **Thickness: Front** 13 x 15/16 **Back** 11/16 **Mean pitch of stays** 10 1/4 **Pitch across wide water spaces** 14
Working pressures by rules 120 **Girders to Chamber tops: Material** S **Depth and thickness of girder at centre** 6 1/2 x 1 1/4
Length as per rule 27 1/2 **Distance apart** 7 **Number and pitch of Stays in each** 2- 7 3/4
Working pressure by rules 140 **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** ☒

VERTICAL DONKEY BOILER—**No.** - **Description** - **Manufacturers of steel** -
Made at - **By whom made** - **When made** - **Where fixed** -
Working pressure - **tested by hydraulic pressure to** - **No. of Certificate** - **Fire grate area** - **Description of safety valves** -
No. of safety valves - **Area of each** - **Pressure to which they are adjusted** - **If fitted with easing gear** - **If steam from main boilers can enter the donkey boiler** -
Dia. of donkey boiler - **Length** - **Material of shell plates** - **Thickness** - **Range of tensile strength** -
Descrip. of riveting long. seams - **Dia. of rivet holes** - **Whether punched or drilled** - **Pitch of rivets** -
Lap of plating - **Per centage of strength of joint** - **Working pressure of shell by rules** - **Thickness of shell crown plates** -
Radius of do. - **No. of Stays to do.** - **Dia. of stays** - **Diameter of furnace Top** - **Bottom** - **Length of furnace** -
Thickness of furnace plates - **Description of joint** - **Working pressure of furnace by rules** - **Thickness of furnace crown plates** -
Stayed by - **Diameter of uptake** - **Thickness of uptake plates** - **Thickness of water tubes** -

FOR The foregoing is a correct description,
SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.
Manufacturers.

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - -
 Total No. of visits

Wm. L. L. L.
 DIRECTOR
 Please see machinery report.

Is the approved plan of main boiler forwarded herewith No
 " " " donkey " " No

1193-0128

