

REPORT ON BOILERS.

No. 25501

Received at London Office

FRI. NOV. 22. 1912

Date of writing Report 14-8-12 When handed in at Local Office 21-11-12 Port of SUNDERLAND
 No. in Survey held at SUNDERLAND Date, First Survey April, 24th Last Survey 13-8-1912
 Reg. Book. Steel S.S. "Salamanca" (Number of Visits 11) Gross 3246.68
 on the Steel S.S. "Salamanca" Tons Net 2016.49
 Master L. J. Daniel Built at Sunderland By whom built J. Blumer & Co. S/N-213 When built 1912
 Engines made at Sunderland By whom made North Eastern Marine Eng. Co. Ltd when made 1912
 Boilers made at Sunderland By whom made MacLellan & Pollock Ltd (N° 621) when made 1912
 Registered Horse Power _____ Owners Scholefield Steam Shipping Co. Ltd Port belonging to Newcastle

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ — Manufacturers of Steel John Spencer & Sons Ltd & MacLellan & Pollock Ltd

(Letter for record (5)) Total Heating Surface of Boilers 668 Is forced draft fitted No No. and Description of Boilers one single ended Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 13-8-12

No. of Certificate 3036 Can each boiler be worked separately Area of fire grate in each boiler 25 No. and Description of safety valves to each boiler Two spring loaded. Area of each valve 5.94 Pressure to which they are adjusted 103 lbs.

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 On main deck. Mean dia. of boilers 9'-6" Length 9'-6"

Material of shell plates Steel Thickness 5/8" Range of tensile strength 28 1/2 - 32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams S.R. long. seams T.R. lap Diameter of rivet holes in long. seams 7/8" Pitch of rivets 3.17"

Lap of plates on width of butt straps 6" Per centages of strength of longitudinal joint rivets 77.3 Working pressure of shell by rules 106 Size of manhole in shell 12x16 Size of compensating ring 5 7/4 x 13/16 No. and Description of Furnaces in each boiler two plain Material Steel Outside diameter 3'-0" Length of plain part 12" Thickness of plates 17/32

Description of longitudinal joint welded No. of strengthening rings None Working pressure of furnace by the rules 106 Combustion chamber plates: Material Steel Thickness: Sides 17/32 Back 9/16 Top 17/32 Bottom 17/16 Pitch of stays to ditto: Sides 9 7/8 x 7 3/4 Back 9 3/8 x 10

Top 7 1/2 x 10 1/2 If stays are fitted with nuts or riveted heads multinices Working pressure by rules 104 Material of stays Steel Diameter at smallest part 1.450 Area supported by each stay 79 Working pressure by rules 103 End plates in steam space: Material Steel Thickness 23/32

Pitch of stays 16x18 How are stays secured DN. Working pressure by rules 100 Material of stays Steel Diameter at smallest part 4.110

Area supported by each stay 288 Working pressure by rules 148 Material of Front plates at bottom Steel Thickness 23/32 Material of lower back plate Steel Thickness 23/32 Greatest pitch of stays 12 1/2" Working pressure of plate by rules 139 Diameter of tubes 3 1/4"

Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates Steel Thickness: Front 23/32 Back 7/8" Mean pitch of stays 11 1/8" Pitch across wide water spaces 13 1/2" Working pressures by rules 101 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 2 @ 5 7/8 x 13/16 Length as per rule 25 7/8 Distance apart 10 1/2" Number and pitch of Stays in each 2 @ 7 1/2"

Working pressure by rules 107 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 _____

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, MacLellan & Pollock Ltd Manufacturer.

Dates of Survey: During progress of work in shops - Apr. 24, 29, May, 6, June, 3, 18, 24, Is the approved plan of boiler forwarded herewith Yes
During erection on board vessel - Jul, 2, 30, 31, Nov, 11, 14 Total No. of visits 11

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

The materials and workmanship are good. The boiler has been made under special survey, and has been securely fitted on board & safety valves adjusted under steam.

Survey Fee ... £ 2 : 2 : 0 : } When applied for, 21-11-12
Travelling Expenses (if any) £ : : } When received, 23/11/12

Committee's Minute _____
Signed _____

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