

REPORT ON BOILERS.

No. 25658
WED. APR. 23. 1913

Received at London Office

Date of writing Report 1913 When handed in at Local Office 19.4.1913 Port of Sunderland
 No. in Survey held at Sunderland Date, First Survey 22 August Last Survey 15 April 1913
 Reg. Book. on the Donkey Boiler for S/S Bingle Bank (Number of Visits) Gross 3.30 Tons Net 1940
 Master Herr Built at Sunderland By whom built John Blumeb & Co (S/S N° 216) When built 1913
 Engines made at Sunderland By whom made John Dickinson & Sons Ltd (N° 755) When made 1913
 Boilers made at Sunderland By whom made Mac Coll & Pollock Ltd (N° 623) When made 1912
 Registered Horse Power Owners Stewart & Hobbs Ltd Port belonging to Liverpool

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ **DONKEY.**—Manufacturers of Steel John Spencer & Sons Ltd
 (Letter for record (S)✓) Total Heating Surface of Boilers 569 Is forced draft fitted no No. and Description of Boilers one single ended marine Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 6.12.12
 No. of Certificate 3069 Can each boiler be worked separately yes Area of fire grate in each boiler 21 No. and Description of safety valves to each boiler two Spring Area of each valve 3.97 Pressure to which they are adjusted 105
 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 15" Im dia. of boilers 9'-0" Length 9'-0"
 Material of shell plates steel Thickness 19/32 Range of tensile strength 28 1/2-32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams SR long. seams lap DR Diameter of rivet holes in long. seams 1" Pitch of rivets 3 1/4"
 Lap of plates or width of butt straps 5" Per centages of strength of longitudinal joint rivets 69.2 Working pressure of shell by rules 100 Size of manhole in shell 16" x 12" Size of compensating ring 6" x 23/32 plate 69.2 No. and Description of Furnaces in each boiler 2 plain Material steel Outside diameter 2'-8 1/2" Length of plain part 5'-9" Thickness of plates crown 1 1/2" bottom 1 1/2"
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 110 Combustion chamber plates: Material steel Thickness: Sides 1 1/2" Back 1 1/2" Top 1 1/2" Bottom 1 1/8" Pitch of stays to ditto: Sides 10" x 7" Back 9" x 8 1/4"
 Top 7" x 10 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 108 Material of stays steel area Diameter at smallest part 10.25" Area supported by each stay 73.30" Working pressure by rules 109 End plates in steam space: Material steel Thickness 2 3/32"
 Pitch of stays 17 1/4" x 12 1/2" How are stays secured W.N. Working pressure by rules 104 Material of stays steel Diameter at smallest part 2.16"
 Area supported by each stay 215.50" Working pressure by rules 104 Material of Front plates at bottom steel Thickness 2 3/32" Material of Lower back plate steel Thickness 2 3/32" Greatest pitch of stays 14 1/4" x 8 1/4" Working pressure of plate by rules 155 Diameter of tubes 3 1/4"
 Pitch of tubes 4 3/4" x 4 1/2" Material of tube plates steel Thickness: Front 2 3/32" Back 5/8" Mean pitch of stays 11 5/8" Pitch across wide water spaces 13 3/8" Working pressures by rules 103 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 20 5/4" x 3 1/4" Length as per rule 22 1/2" Distance apart 10 1/2" Number and pitch of Stays in each 20 1"
 Working pressure by rules 106 Superheater or Steam chest: how connected to boiler none Can the superheater be shut off and the boiler worked separately yes
 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,

MAC COLL & POLLOCK LTD

Manufacturer.

Dates of Survey During progress of work in shops - - - 1912 Aug 22, Sep 9, Oct 4, 16, 30 Nov 4, 21, 29
 while building During erection on board vessel - - - Dec 3, 6, Apr. 3, 15

Is the approved plan of boiler forwarded to the Director yesTotal No. of visits 12

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.
 Secured in place examined under steam and safety valves adjusted to 105 lbs

Survey Fee ... £ 2 : 2 : When applied for, 21.4.1913

Travelling Expenses (if any) £ : : When received, 191

Committee's Minute

FRI. APR. 25. 1913

Assigned

see Minute on
Sld. Rpt. 25658

Lewis & Davis, Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Lloyd's Register
Foundation

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