

REPORT ON BOILERS.

No. 55,700

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Received at London Office

Date of writing Report 11 NOV 1908 Port of Newcastle

No. in Survey held at Newcastle Date, First Survey Last Survey 5th Nov 1908

Reg. Book. on the Auxiliary Boiler & Engineer (Number of Visits) Gross 5883 Net 3797

Master W. Lewellyn Built at Newcastle By whom built Swan Hunter & Wigham & Carter When built 1908

Engines made at Kelkew By whom made W & M Lang 60 h. when made 1908

Boilers made at do By whom made do when made 1908

Registered Horse Power Owners J. J. Harrison Port belonging to Liverpool

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel J. Spencer & Sons

Letter for record J. (r) Total Heating Surface of Boilers 1242 sq. ft. Is forced draft fitted no. No. and Description of Boilers 1 St

Working Pressure 190. Tested by hydraulic pressure to 380 Date of test 5/5/08

No. of Certificate 7709. Can each boiler be worked separately? Area of fire grate in each boiler 50.8 sq. ft. No. and Description of Safety valves to each boiler 2 Spring

Area of each valve 4.9 sq. ft. Pressure to which they are adjusted 195

Are they fitted with easing gear? 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 30" Mean dia. of boilers 13' 2 1/2" Length 9' 9 1/4"

Material of shell plates S Thickness 1 1/2" Range of tensile strength 28 1/2-32 Are the shell plates welded or flanged? End 8"

Description of riveting: cir. seams d. r lap long. seams 4. butt Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 8 1/8"

Width of butt straps 18 3/4" Per centages of strength of longitudinal joint rivets 91.3 plate 85.1 Working pressure of shell by rules 215

Size of manhole in shell 16 x 12" Size of compensating ring 7" dia. No. and Description of Furnaces in each boiler 3 Morrison

Material S Outside diameter 3' 5 1/4" Length of plain part top Thickness of plates crown 1 1/2" bottom 3/2"

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 199. Combustion chamber

Material S Thickness: Sides 23/32 Back 23/32 Top 25/32 Bottom 1/2" Pitch of stays to ditto: Sides 10' 8 1/2" Back 10' 8 1/2"

Top 10' 8 1/2" If stays are fitted with nuts or riveted heads? nut. Working pressure by rules 204 Material of stays S Diameter at smallest part 2' 3 1/2"

Area supported by each stay 864 Working pressure by rules 204 End plates in steam space: Material S Thickness 1 1/2"

Pitch of stays 21 x 19 How are stays secured? nut. Working pressure by rules 193 Material of stays S Diameter at smallest part 8' 4 1/2"

Area supported by each stay 399 Working pressure by rules 220 Material of Front plates at bottom S Thickness 1"

Material of tube plates S Thickness: Front 1" Back 3/4" Mean pitch of stays 9 1/4" Pitch across wide

Water spaces 14 1/2" Working pressures by rules 194. Girders to Chamber tops: Material S Depth and thickness of

Order at centre 8 1/2 x 12" Length as per rule 28" Distance apart 10" Number and pitch of Stays in each 2 @ 8 1/2"

Working pressure by rules 198. 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

Plates Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

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

NORTH EASTERN MARINE ENGINEERING Co., LTD.

J. J. Harrison Secretary

The foregoing is a correct description,

Manufacturer.

Dates of Survey: During progress of work in shops - - - Please see report on machinery. While building: During erection on board vessel - - -

Is the approved plan of boiler forwarded herewith? Yes.

Total No. of visits

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

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

see report attached

J. Y. Findlay Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUES. 17 NOV 1908

Assigned



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