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Rpt. 5.

REPORT ON BOILERS.

No. 52390
TUES. FEB 19 1907

Port of Newcastle

Received at London Office

No. in Reg. Book. Survey held at Newcastle Date, first Survey ✓ Last Survey Feb. 17 1907
 on the S/S "Sisak" (Number of Visits ✓)
 Master Lincklage Built at Newcastle By whom built Armstrong Whitworth & Co Tons { Gross 4657 Net 2970 When built 1906-7
 Engines made at Newcastle By whom made Wallsend Slipway & Eng. Co when made 1906-7
 Boilers made at " By whom made " when made 1906-7
 Registered Horse Power " Owners Deutsche Dampf. Ges. Harms Port belonging to Hamburg

MULTITUBULAR BOILERS MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel Jepener & Sons Ltd.

(Letter for record S) Total Heating Surface of Boilers 804 Is forced draft fitted ✓ No. and Description of Boilers 1 S. ended Working Pressure 180 lb Tested by hydraulic pressure to 360. Date of test 14.12.06

No. of Certificate 7394. Can each boiler be worked separately ✓ Area of fire grate in each boiler 2 1/2. No. and Description of safety valves to each boiler 2 Spring. Area of each valve 4 Pressure to which they are adjusted 185 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 2 feet Ev^r dia. of boilers 10ft Length 10ft

Material of shell plates S Thickness 5 1/4 Range of tensile strength 28-32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams d. r. lap long. seams abutto Diameter of rivet holes in long. seams 3/32 Pitch of rivets 6 1/8

Exp. of plates or width of butt straps 14 3/8 Per centages of strength of longitudinal joint rivets 90 Working pressure of shell by rules 194. Size of manhole in shell 16 x 12. Size of compensating ring M Keils No. and Description of Furnaces in each boiler 2 Monson's Material S Outside diameter 36 1/2 Length of plain part top Thickness of plates bottom 3 1/4 3 1/4

Description of longitudinal joint weld. No. of strengthening rings ✓ Working pressure of furnace by the rules 194. Combustion chamber plates: Material S Thickness: Sides 19/32 Back 19/32 Top 19/32 Bottom 3/4. Pitch of stays to ditto: Sides 7 1/8 x 7 1/8 Back 7 1/8 x 7 1/8

Top 7 1/8 x 7 1/8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 210 Material of stays S Diameter at smallest part 1 1/4 Area supported by each stay 58 Working pressure by rules 200 End plates in steam space: Material S Thickness 1 1/8

Pitch of stays 1 1/8 x 13 1/8 How are stays secured d nut Working pressure by rules 247 Material of stays S Diameter at smallest part 5.05

Area supported by each stay 230 Working pressure by rules 219 Material of Front plates at bottom S Thickness 1 Material of Lower back plate S Thickness 1 1/16 Greatest pitch of stays 14 1/2 Working pressure of plate by rules 180 Diameter of tubes 3 1/4

Pitch of tubes 4 1/8 x 4 1/8 Material of tube plates S Thickness: Front 1 Back 3/4 Mean pitch of stays 8 1/4 Pitch across wide water spaces 13 1/4 Working pressures by rules 253. Girders to Chamber tops: Material S. Depth and thickness of girder at centre 6 3/4 x 1 1/2 Length as per rule 25 1/2 Distance apart 4 1/4 Number and pitch of Stays in each 2 of 7 1/8

Working pressure by rules 206. 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 " Date of test " 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 Rivets " 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 " Radius of do. " Stayed by " Diameter of uptake " Thickness of uptake plates "
 Thickness of water tubes "

FOR THE WALLSEND SLIPWAY & ENGINEERING CO., LIMITED.

M. Murray

SECRETARY.

The foregoing is a correct description.

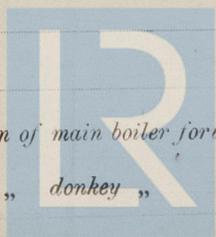
Manufacturer.

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

Please see machinery report.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "



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W1587-089

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

*Built under Special Survey, fitted
and examined under Steam I. Y. F.*

Certificate (if required) to be sent to

The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee...	£	:	:	When applied for.
Special ...	£	:	:	18 FEB 1907
Donkey Boiler Fee ...	£	0	0	When received.
Travelling Expenses (if any) £	:	:	:	207 2/107

13.07
24.07

J. Y. Sturday

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

Committee's Minute

FRI. FEB 22 1907

Assigned



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