Rpt. 5a.

REPORT ON BOILERS.

No. 22846

FRI. 12 AUG 1910

Received at London Office

Date of writing Report 4·8 1910 When handed in at Local Office 4·8 1910 Port of Hull

No. in Reg. Book. 86 Survey held at Hull Date, First Survey Sept 1/09 Last Survey Aug 4th 1910 (Number of Visits 97) Tons Gross 1629. Net

on the Steel Sc. Sr. Accrington

Master Built at Hull By whom built Messrs Earles & Co Ld When built 1910

Engines made at } Hull By whom made } Messrs when made 1910

Boilers made at } Hull By whom made } Earles & Co Ld. when made 1910

Registered Horse Power Owners Gt. Central Railway Port belonging to Grimsby

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY.—Manufacturers of Steel Messrs W. Beardmore & Co

(Letter for record (a)) **Total Heating Surface of Boilers** 530 □ Is forced draft fitted No **No. and Description of Boilers** One Cyl. Multi Single End **Working Pressure** 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 26·5·10

No. of Certificate 1744 Can each boiler be worked separately — **Area of fire grate in ~~each~~ boiler** 26 □ No. and Description of safety valves to ~~each~~ boiler Two Spring Area of each valve 4·9 □" Pressure to which they are adjusted 100 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 9" ~~Mean~~ Int dia. of boilers 8'~9" Length 8'~0"

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

Descrip. of riveting: cir. seams L.D. long. seams D.B.S.D.R. Diameter of rivet holes in long. seams 7/8" Pitch of rivets 3 5/8"

~~Lap of plates or~~ width of butt straps 8 7/8" Per centages of strength of longitudinal joint rivets 76·2 plate 75·8 Working pressure of shell by rules 127 lbs Size of manhole in shell 19" × 15" Size of compensating ring 4½" × 7/8"

No. and Description of Furnaces in ~~each~~ boiler Two plain Material Steel Outside diameter 2'~8" Length of plain part top/bottom 5'-8 3/16" Thickness of plates crown/bottom ½"

Description of longitudinal joint Welded No. of strengthening rings 0 Working pressure of furnace by the rules 123 lbs Combustion chamber plates: Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 5/8" Pitch of stays to ditto: Sides 8¾" Back 9" × 8½"

Top 9½" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 176 lbs Material of stays Iron Diameter at smallest part 1 3/8" Area supported by each stay 76·5 □ Working pressure by rules 176 lbs End plates in steam space: Material Steel Thickness 13/16"

Pitch of stays 14" × 13" How are stays secured D. Nuts Working pressure by rules 162 lbs Material of stays Iron Diameter at smallest part 2 1/16"

Area supported by each stay 182 □" Working pressure by rules 138 lbs Material of Front plates at bottom Steel Thickness 13/16" Material of Lower back plate Steel Thickness 13/16" Greatest pitch of stays 9" × 8½" Working pressure of plate by rules 297 lbs Diameter of tubes 3"

Pitch of tubes 4¼" × 4¼" Material of tube plates Steel Thickness: Front 13/16" Back 25/32" Mean pitch of stays 10 5/8" Pitch across wide water spaces 13" Working pressures by rules 140 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6" × 1¼" Length as per rule 1~7 3/32" Distance apart 9½" Number and pitch of Stays in each one

Working pressure by rules 141 lbs 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

The foregoing is a correct description,

F. J. Palethorpe Manufacturer.

Dates of Survey while building: During progress of work in shops - - See Machinery Report. Is the approved plan of boiler forwarded herewith ✓

During erection on board vessel - - - Total No. of visits ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey in accordance with the Societys Rules. The materials and workmanship are good. The boiler tested by hydraulic pressure, secured on board, tested under steam and found satisfactory; and eligible in my opinion to be classed with notation as per machinery report

Survey Fee ... ... £ : : } When applied for, ✓ 19

Travelling Expenses (if any)) £ ✓ : : } When received. 19

James Barclay

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

TUE. 16 AUG 1910

Committee's Minute

Assigned

W1037-D014

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