

REPORT ON BOILERS.

No. 11613

WED. JUN. 30 1920

Hull Rpt. No. 32311.

Date of writing Report 25 June 1920 When handed in at Local Office 19 June 1920 Port of Grimsby

No. in Survey held at Lincoln Date, First Survey 20 Dec 1919 Last Survey 25 June 1920

Reg. Book. on the (Number of Visits) 12 Gross Tons 1120 Net Tons 1120

Master Hessle Built at Hessle By whom built Henry Scarr & Co When built 1920

Engines made at Lincoln By whom made Ruston & Hornsby Ltd When made 1920

Boilers made at Lincoln By whom made Boiler 4043215 When made 1920

Registered Horse Power 1043215 Port belonging to Stewart & Lloyd Beardmore

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

(Letter for record S) Total Heating Surface of Boilers 8144 Is forced draft fitted No No. and Description of Boilers One simple end Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 25.6.20

No. of Certificate 192 Can each boiler be worked separately Yes Area of fire grate in each boiler 30.5 No. and Description of safety valves to each boiler Two spring loaded Area of each valve 3.980 Pressure to which they are adjusted 185 lb

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 2-0 Mean dia. of boilers 10-0 Length 9-6

Material of shell plates Steel Thickness 3/4 Range of tensile strength 28-32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DR Lap long. seams DR T.R. Diameter of rivet holes in long. seams 7/16 Pitch of rivets 7

Lap of plates or width of butt straps 13 3/4 Per centages of strength of longitudinal joint 88.9 Working pressure of shell by rules 182 lb Size of manhole in shell 16 x 12 Size of compensating ring 6 1/2 x 2 1/2 No. and Description of Furnaces in each boiler Two plain Material Steel Outside diameter 3-2 Length of plain part 6-0 7/8 Thickness of plates 11/16

Description of longitudinal joint Weld No. of strengthening rings 11 Working pressure of furnace by the rules 180 lb Combustion chamber plates: Material Steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 9/16 Pitch of stays to ditto: Sides 8 x 7/4 Back 8 x 7/2

Top 8 x 7 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 182 lb Material of stays Steel Area at smallest part 1.50 Area supported by each stay 600 Working pressure by rules 225 End plates in steam space: Material Steel Thickness 7/8

Pitch of stays 14 x 14 How are stays secured By nuts Working pressure by rules 185 Material of stays Steel Area at smallest part 3.430

Arch supported by each stay 1960 Working pressure by rules 182 lb Material of Front plates at bottom Steel Thickness 7/8 Material of Lower back plate Steel Thickness 7/8 Greatest pitch of stays 13 1/2 x 7 1/2 Working pressure of plate by rules 230 Diameter of tubes 3 1/2

Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates Steel Thickness: Front 7/8 Back 7/16 Mean pitch of stays 9.7 Pitch across wide water spaces 13 1/4 Working pressures by rules 188 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8 x 18 Length as per rule 28 1/2 Distance apart 7 Number and pitch of Stays in each 2 28

Working pressure by rules 190 lb Steam dome: description of joint to shell None fitted % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER.

Type ✓ Date of Approval of Plan 1919 Dec 12 Tested by Hydraulic Pressure to 360 lb

Date of Test 1920 Jan 13 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 1 1/2 Pressure to which each is adjusted 180 lb Is Easing Gear fitted Yes

The foregoing is a correct description,

Ruston & Hornsby Ltd. Manufacturer.

Dates of Survey: During progress of work in shops - 1919 Dec 12 1920 Jan 13 27 Feb 13 27 Mar 12 31 Apr 16 Is the approved plan of boiler forwarded herewith Yes

while building: During erection on board vessel - May 7 21 June 18 25 Total No. of visits 12 Standard Dipole Type

GENERAL REMARKS

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

This boiler has been built under special survey, the material & workmanship are good & the boiler with all mountings fitted afterwards satisfactorily tested by water pressure & 360 lb.

This boiler has been forwarded to the Shipbuilders in the Hull district & be fitted on board. This boiler has been securely fitted in the vessel for notation see machinery report.

Survey Fee 2-14- When applied for 29 June 1920

Travelling Expenses (if any) 2-7-6 When received 27/7 1920

Committee's Minute

Assigned

TUE. 7 DEC. 1920

Engineer Surveyor to Lloyd's Register of Shipping.

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