

# REPORT ON BOILERS.

No. 29952

Received at London Office

TUE. 22 MAY. 1917

Date of writing Report

191

When handed in at Local Office

14/5/1917 Port of Hull

Safety No. in Survey held at Hull

Date, First Survey Nov 9/16

Last Survey 15-5-1917

on the Steel screw tugboat Springwell

(Number of Visits 23)

Gross 285.66

Net 112.5

Master Built at Gole

By whom built Gole S.B. & Rpg L.L.

When built 1917

Engines made at Glasgow

By whom made W. Beardmore & Co. L.L.

When made 1917

Boilers made at Hull

By whom made C. D. Holmes & Co. L.L. (H/1177)

When made 1917

Registered Horse Power

Owners Sun Steam Tugboat Co. Ltd. Port belonging to Hull

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel Stewart & Lloyd.

Letter for record 5 Total Heating Surface of Boilers 1823 Is forced draft fitted no No. and Description of

Boilers one single ended Working Pressure 20 lbs. Tested by hydraulic pressure to 40 lbs. Date of test 27-3-17

No. of Certificate 3200 Can each boiler be worked separately Area of fire grate in each boiler 45 ft. No. and Description of

Safety valves to each boiler two spring loaded Area of each valve 5.93 Pressure to which they are adjusted 205 lbs. No.

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler

Smallest distance between boilers or uptakes and bunkers or woodwork 8" Mean dia. of boilers 153 1/16" Length 10'-6"

Material of shell plates steel Thickness 1 5/32" Range of tensile strength 28-32 Are the shell plates welded or flanged no

Description of riveting: cir. seams double long. seams Y.R. & B. Diameter of rivet holes in long. seams 1 5/32" Pitch of rivets 7 1/8"

Width of plates or width of butt straps 18" Per centages of strength of longitudinal joint rivets 85.2 plate 85.3 Working pressure of shell by

Rules 201 Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1 5/8" No. and Description of Furnaces in each

Boiler Three Plain Material steel Outside diameter 37" Length of plain part top 78 1/2" Thickness of plates crown 49/64 bottom 69/64

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 204 Combustion chamber

Dimensions: Material steel Thickness: Sides 1 1/16" Back 1 1/16" Top 2 3/32" Bottom 1 1/16" Pitch of stays to ditto: Sides 9 1/2" x 8 1/2" Back 10" x 8"

17 p 14" x 8 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 202 Material of stays steel Area Diameter at

Smallest part 2' 07" Area supported by each stay 85" Working pressure by rules 219 End plates in steam space: Material steel Thickness 1 1/8"

How are stays secured 8" x 16" Working pressure by rules 207 Material of stays steel Area Diameter at smallest part 5' 7 1/4"

23 supported by each stay 288" Working pressure by rules 209 Material of Front plates at bottom steel Thickness 7/8" Material of

23 lower back plate steel Thickness 29/32" Greatest pitch of stays 14" x 9" Working pressure of plate by rules 205 Diameter of tubes 8 1/2"

23 of tubes 5" x 5" Material of tube plates steel Thickness: Front 7/8" + 5/16" Back 7/8" Mean pitch of stays 11 1/4" Pitch across wide

23 of spaces 13 1/2" Working pressures by rules 217 lbs. Girders to Chamber tops: Material steel Depth and thickness of

23 der at centre 10 1/4" x 1 3/4" Length as per rule 35' 47" Distance apart 10' Number and pitch of Stays in each Three 8 1/2"

23 Working pressure by rules 205 Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked

23 arately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

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

23 stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

23 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,

p. pro CHARLES D. HOLMES & CO. LTD.

Manufacturer.

Arthur Holmes

DIRECTOR

During progress of 1916 Nov 9/16 Jan 9/16 23 25 Feb 17 9/13 16 23 Is the approved plan of boiler forwarded herewith

work in shops - 28 Mar 15 8 14 15 23 27 Apr 13 14

During erection on board vessel - May 15

Total No. of visits 23

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

This boiler has been constructed in accordance with the approved plan of the Society. The materials & workmanship are good. The Boiler has been tested by hydraulic pressure as above & found sound & tight, the boiler has been properly fitted & secured to place on board the vessel & safety valves adjusted under steam.

Survey Fee £ When applied for, 191

Travelling Expenses (if any) £ When received, 191

Fees Charged at Glasgow.

Frank L. Stanger & W. H. Roberts  
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

igned

FRI. 25 MAY. 1917

Lloyd's Register Foundation