

REPORT ON BOILERS.

No. 34338

Received at London Office WED. 19 DEC. 1917

Date of writing Report

191

When handed in at Local Office

191

Port of Glasgow

No. in Survey held at
Reg. Book.

Renfrew

Date, First Survey

16/10/17

Last Survey

5/12/17

191

(Number of Visits)

5

Gross 96.2
Net 33.36

on the

Steam Bifter D. 21 "Indian Summer"

Master

Built at

Aberdeen

By whom built

John Lewis & Sons Ltd. No. 55 When built 1918.

Engines made at

Aberdeen

By whom made

J. Lewis & Sons Lim.

When made

1918.

Boilers made at

Renfrew

By whom made

Wm Simons & Co Lim

When made

1917.

Registered Horse Power

43.

Owners

Admiralty

Port belonging to

✓

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Stiel Co of Scotland

(Letter for record 5) Total Heating Surface of Boilers 814 sq ft Is forced draft fitted no No. and Description ofBoilers one Single ended Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 5.12.17No. of Certificate 14011 Can each boiler be worked separately Area of fire grate in each boiler 30.5 sq ft No. and Description ofsafety valves to each boiler 2 direct spring Area of each valve 3.94 sq in 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 ✓

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers 10' 0" Length 9' 7 1/2"

Material of shell plates steel Thickness 3/8" Range of tensile strength 28 tons Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams DR lap long. seams DBS-TR Diameter of rivet holes in long. seams 15/16" Pitch of rivets 7"

Lap of plates or width of butt straps 13 3/4" Per centages of strength of longitudinal joint rivets 86.9 Working pressure of shell by plate 86.6

rules 182 Size of manhole in shell 12 x 16 Size of compensating ring 28 x 24 x 27/32 No. and Description of Furnaces in each

boiler 2 plain Material steel Outside diameter 38" Length of plain part top 5' 11" Thickness of plates crown 11/16" bottom 8' 2"

Description of longitudinal joint weld No. of strengthening rings 1 on bottom Working pressure of furnace by the rules 180 Combustion chamber

plates: Material steel Thickness: Sides 7/8" Back 7/8" Top 7/8" Bottom 7/8" Pitch of stays to ditto: Sides 8 x 7 1/4" Back 8 x 7 1/2"

Top 8 x 7 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182 Material of stays steel Diameter at

smallest part 1.5" Area supported by each stay 60" Working pressure by rules 200 End plates in steam space: Material steel Thickness 7/8"

Pitch of stays 14 x 14 How are stays secured DN+W Working pressure by rules 185 Material of stays steel Diameter at smallest part 3.43"

Area supported by each stay 196" Working pressure by rules 182 Material of Front plates at bottom steel Thickness 7/8" Material of

Lower back plate steel Thickness 7/8" Greatest pitch of stays 13 1/4" Working pressure of plate by rules 227 Diameter of tubes 3 1/4"

Pitch of tubes 4 3/8 x 4 1/4 Material of tube plates steel Thickness: Front 7/8" Back 11/16" Mean pitch of stays 11 1/2" Pitch across wide

water spaces 13 1/4" Working pressures by rules 280 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 2 plates 8 x 7/8 Length as per rule 29 1/2" Distance apart 7" Number and pitch of Stays in each 2 of 8"

Working pressure by rules 180 Superheater or Steam chest: how connected to boiler none 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 —

Survey request form

The foregoing is a correct description,

FOR WM. SIMONS & CO., LTD.

No. 2045 attached

Is the approved plan of boiler forwarded herewith

Total No. of visits 5

Dates of Survey

During progress of work in shops — 1917 Dec 16 Nov 24 Dec 5

During erection on board vessel —

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

This boiler has been constructed under special survey in accordance with the rules &

approved plan. Materials & workmanship are good.

This boiler has been forwarded to Aberdeen to be fitted on board.

Boiler now fitted on board above named vessel. In recommendation of Class. See Abn F.C. Mach. Rpt. 12032.

Survey Fee £ 4 : 0 : 0 When applied for 8.12.1917

Travelling Expenses (if any) £ : : : When received 11.12.1917

Committee's Minute GLASGOW 18 DEC. 1917

Assigned TRANSMIT TO LONDON

FRI. 22 FEB. 1918

Lloyd's Register Foundation

Harry Clarke

Engineer Surveyor to Lloyd's Register of Shipping.

006387-006400-0063