

REPORT ON BOILERS.

No. 16520
WED. AUG. 20, 1913

Received at London Office

Date of writing Report

191

When handed in at Local Office

15/8/1913 Port of Greenock.

No. in Survey held at
Reg. Book.

Greenock

Date, First Survey

17th April 1912

Last Survey

9th Aug. 1913.

(Number of Visits 88)

Gross 6492

Tons Net 4132.

on the SCREW STEAMER "SEIYO MARU."

Master

Built at Port Glasgow

By whom built Russell 1604

When built 1913

Engines made at

Greenock

By whom made

Rankin & Blackmore

When made

1913.

Boilers made at

Greenock

By whom made

Rankin & Blackmore

When made

1913.

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY~~ ^{AUX} ~~Centre Boiler~~ — Manufacturers of Steel Glasgow Iron & Steel Coy. L.(Letter for record 5.) Total Heating Surface of Boilers 2261 ⁴/₁₆ Is forced draft fitted Yes. No. and Description ofBoilers 3 Cylinders mult. Single Working Pressure 180 ¹/₂ Tested by hydraulic pressure to 360 ¹/₂ Date of test 18/6/13.

No. of Certificate 1125 Can each boiler be worked separately Yes Area of fire grate in each boiler 56 sq. ft. No. and Description of

safety valves to each boiler 2: Swin Spring Area of each valve 11.04 ¹/₁₆ Pressure to which they are adjusted 185 ¹/₂.

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 9' 4" Mean dia. of boilers 14' 6" Length 11' 6"

Material of shell plates Steel Thickness 1' 8" Range of tensile strength 29 to 32 tons Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Lap Double long. seams Butt straps Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 7/16 4 3/4

Lap of plates or width of butt straps 18 1/4 Per centages of strength of longitudinal joint rivets 89 plate 85.9 Working pressure of shell by

rules 180 ¹/₂ Size of manhole in shell 16 x 12 Size of compensating ring 30 x 26 x 1 1/8 No. and Description of Furnaces in each

boiler 3: Deighton Material Steel Outside diameter 44 1/2 Length of plain part top 17 1/2 bottom 17 1/2 Thickness of plates crown 17 bottom 32

Description of longitudinal joint Weld. No. of strengthening rings none Working pressure of furnace by the rules 185 ¹/₂ Combustion chamber

plates: Material Steel Thickness: Sides 7/16 Back 5/8 Top 7/16 Bottom 5/8 Pitch of stays to ditto: Sides 9 3/4 x 8 Back 9 3/4 x 8

Top 7 3/4 x 10 1/2 If stays are fitted with nuts or riveted heads Auto Working pressure by rules 181 ¹/₂ Material of stays Steel Diameter atsmallest part 1 1/2 Area supported by each stay 78 ¹/₂ Working pressure by rules 182 ¹/₂ End plates in steam space: Material Steel Thickness 1 7/16Pitch of stays 21 x 15 1/2 How are stays secured Auto Working pressure by rules 183 ¹/₂ Material of stays Steel Diameter at smallest part 2 7/8Area supported by each stay 300 ¹/₂ Working pressure by rules 180 ¹/₂ Material of Front plates at bottom Steel Thickness 1 3/16 Material ofLower back plate Steel Thickness 3/16 Greatest pitch of stays 13 Working pressure of plate by rules 181 ¹/₂ Diameter of tubes 2 1/2

Pitch of tubes 3 3/4 x 3 3/4 Material of tube plates Steel Thickness: Front 16 with 2 Back 4 Mean pitch of stays 9 3/4 Pitch across wide

water spaces 13 3/4 Working pressures by rules 242 ¹/₂ 231 ¹/₂ Orders to Chamber tops: Material Steel Depth and thickness of

girder at centre 10 1/2 x 1 1/2 Length as per rule 34.6 Distance apart 10 1/2 Number and pitch of Stays in each 3: 7 3/4

Working pressure by rules 182 ¹/₂ 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

The foregoing is a correct description,

Rankin & Blackmore Manufacturer.

Dates of Survey
During progress of work in shops --
while building During erection on board vessel ---

See accompanying report.

Is the approved plan of boiler forwarded herewith

Total No. of visits 88.

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

This Boiler was built under special survey and the materials and workmanship are good.

For recommendations, see preceding sheet

Survey Fee ... £ : : When applied for, 191

Travelling Expenses (if any) £ : : When received, 191

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

Committee's Minute

GLASGOW 19 AUG. 1913

Assigned See minute on attached

machinery report