

REPORT ON BOILERS.

No. 6974

Received at London Office

TUE. AUG. 15. 1911

Date of writing Report 3rd June 1911 When handed in at Local Office 14/8/1911 Port of Belfast 12th Aug.
 No. in Survey held at Belfast Date, First Survey 11th Aug. 1910 Last Survey 31st May 1911
 Reg. Book. U.S.S. Egea (Number of Visits 67) Gross 5108 Tons Net 2345
 Master Workman Clark Built at Belfast By whom built Workman Clark & Co. When built 1911
 Engines made at Belfast By whom made - when made -
 Boilers made at - By whom made - when made -
 Registered Horse Power British India Steam Nav. Coy belonging to Shanghai

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY. Manufacturers of Steel Workman Clark & Co.

(Letter for record S) Total Heating Surface of Boilers 5576 sq ft Is forced draft fitted Yes No. and Description of Boilers 2 Single End Cylind^r Working Pressure 200 lbs Tested by hydraulic pressure 400 lbs Date of test 28-2-11
 No. of Certificate 441 Can each boiler be worked separately Yes Area of fire grate in each boiler 65 sq ft No. and Description of safety valves to each boiler Two-Alarm Spring Area of each valve 9.62 sq in Pressure to which they are adjusted 200 lbs
 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 about 15" Mean dia. of boilers 15'-9" Length 12'-0"
 Material of shell plates Steel Thickness 1 39/64 Range of tensile strength 28-32 tons Are the shell plates welded or flanged No
 Descrip. of riveting: cir. section Lap W & L long. section Butt. Lap Diameter of rivet holes in long. seams 15/8 Pitch of rivets 10 1/2
 Top of plates or width of butt straps 23 1/2 Per centages of strength of longitudinal joint 91.6 Working pressure of shell by rules 233 lbs Size of manhole in shell 18" x 12" Size of compensating ring McNeill No. and Description of Furnaces in each boiler 4-Mansard Material Steel Outside diameter 42 1/2" Length of plain part top 39" Thickness of plates bottom 64"

Description of longitudinal joint Weld No. of strengthening rings ✓ Working pressure of furnace by the rules 225 lbs Combustion chamber plates: Material Steel Thickness: Sides 3/2 Back 4 1/2 x 5/8 Top 2 1/2 Bottom 1 3/8 Pitch of stays to ditto: Sides 8 1/2 x 8 1/2 Back 8 1/2 x 7 1/2
 Top 7 1/2 x 8 1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 206 lbs Material of stay Steel Diameter at smallest part 2.06 sq in supported by each stay 7/16 sq in Working pressure by rules 258 lbs plates in steam space: Material Steel Thickness 1 1/2
 Pitch of stay 19 1/2 x 15 1/2 How are stays secured in nuts & washers Working pressure by rules 201 lbs Material of stays Steel Diameter at smallest part 6.66 sq in
 Area supported by each stay 307 sq in Working pressure by rules 225 lbs Material of Front plates at bottom Steel Thickness 1 Material of Lower back plate Steel Thickness 5/4 x 15/16 Greatest pitch of stays 7 1/2 x 7 1/2 Working pressure of plate by rule 224 lbs Diameter of tubes 2 1/2

Pitch of tubes 3 5/8 x 3 3/4 Material of tube plate Steel Thickness: Front 6/32 Back 1/16 Mean pitch of stays 9 1/2 Pitch across wide water spaces 13 1/2 Working pressures by rules 204 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 9 1/2 (2 x 3/4) Length as per rule 33 9/16 Distance apart 8 1/2 Number and pitch of Stays in each 3-7 1/2
 Working pressure by rules 202 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 Yes

The foregoing is a correct description,
 FOR WORKMAN, CLARK & CO., LIMITED
 Manufacturer.

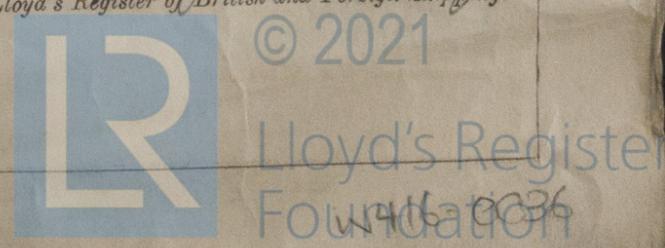
Is the approved plan of boiler forwarded herewith Yes

Total No. of visits ✓

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

Survey Fee £ : : When applied for, 19.
 Travelling Expenses (if any) £ : : When received, 19.

A. S. Thomas & R. F. Pennington
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



Committee's Minute FRI. AUG. 18. 1911
 Assigned See Minute on Bel. Rpt
6974 attached

List of Pumps

- 1 Pelge 6 x 6 Double Acting ✓
- 1 Ballast 9 x 11 x 12 duplex ✓
- 1 General 10 x 4 x 12 ✓
- 2 Vertical Air 11 x 20 x 12 ✓
- 2 - Feed 14 x 10 1/2 x 24 ✓
- 1 Ash Ejector 12 x 8 x 10 ✓
- 1 Monkey Boiler 4 x 2 3/4 x 5 ✓
- 1 Hot Water 6 x 6 x 6 ✓
- 1 Fresh - 6 x 6 x 6 ✓
- 2 Sanitary 6 x 6 x 6 ✓

Spare Gear

- 1 Propeller Shaft
- 2 - Blades
- 1 set packing rings for each size of Piston
- 1 - H.P. piston valves
- 1 pair Crank pin bushes
- 1 - Cross head
- 1 Calculating pump Impeller & spindle
- 20 Condenser tubes 50 ferrules
- sets Escape valve + safety valve & springs
- 20 boiler tubes etc. etc.
- and all gear to Lloyd's Rules extra. ✓

Date of writing Report
No. in Surveyor's Reg. Book.
on the

Master
Engines made at
Boilers made at
Registered Horse

MULTITUBULAR

(Letter for record)
Boilers / Surveys
No. of Certificate
safety valves to each boiler
Are they fitted with

Smallest distance between tubes
Material of shell

Descrip. of rivets
Lap of plates or

rules 108 lbs boiler 2 - 2

Description of longitudinal

plates: Material of top 8 1/2 x 8 1/2 If

smallest part 1/4
Pitch of stays 17

Area supported by
Loiber back plate 4 1/2 x 7 1/2
Pitch of tubes 7 1/2

water spaces 14
girder at centre of

Working pressure
separately

holes Pitch
If stiffened with ribs

Working pressure

Dates of Survey while building
During work
During board

GENERAL

Survey Fee
Travelling Expenses

Committee's Assigned