

Rpt. 5a.

REPORT ON BOILERS.

No. 64158

THU. MAY. 8-1913

Date of writing Report *5th May 1913* When handed in at Local Office *MAY 7 1913* Port of *Newcastle on Tyne*
 No. in Survey held at *Newcastle* Date, First Survey *13th Mar. 13* Last Survey *24th April 1913*
 Reg. Book. *45(Sup)* on the *Steel screw steamer "Hogorod"* (Number of Visits *11*) Gross Tons *3718* Net Tons *3773*
 Master *By whom built* *Sunderland* By whom built *Wm. J. Laing & Sons Ltd* When built *1913*
 Engines made at *Newcastle* By whom made *Swan, Hunter & Wigham Richardson Ltd* when made *1913*
 Boilers made at *Do* By whom made *Do* when made *1913*
 Registered Horse Power *Owners* *Russian Volunteer Fleet Association* Port belonging to *Odessa*

MULTITUBULAR BOILERS *MAIN, AUXILIARY OR* *DONKEY.* No. *402* Manufacturers of Steel *J. Spencer & Sons*
 (Letter for record *✓*) Total Heating Surface of Boilers *1006 sq ft* Is forced draft fitted *to* No. and Description of Boilers *1 S.E. Mult. A.L.* Working Pressure *100 lb* Tested by hydraulic pressure to *200 lb* Date of test *24. 4. 13*
 No. of Certificate *8483* Can each boiler be worked separately *✓* Area of fire grate in each boiler *35 sq ft* No. and Description of safety valves to each boiler *2 direct spring loaded* Area of each valve *4 sq in* Pressure to which they are adjusted *105 lbs*
 Are they fitted with easing gear *yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *to*
 Smallest distance between boilers or uptakes and bunkers or woodwork *12"* Inside Mean dia. of boilers *10' 10 3/8"* Length *9' 6"*
 Material of shell plates *Steel* Thickness *1 1/8"* Range of tensile strength *28 3/4/32* Are the shell plates welded or flanged *to*
 Descrip. of riveting: cir. seams *d. r. lap* long. seams *l. r. lap* Diameter of rivet holes in long. seams *1 1/32"* Pitch of rivets *3 7/8"*
 Lap of plates *or width of butt straps* *4 1/8"* Per centages of strength of longitudinal joint rivets *80.4* Working pressure of shell by rules *106 lbs* Size of manhole in shell *16" x 12"* Size of compensating ring *4 1/2" x 1 1/8"* No. and Description of Furnaces in each boiler *2 Plain* Material *Steel* Outside diameter *38 3/8"* Length of plain part *top 42 1/2"* Thickness of plates *crown 9 1/8"* bottom *8"*
 Description of longitudinal joint *d. b. strap* No. of strengthening rings *✓* Working pressure of furnace by the rules *110 lbs* Combustion chamber plates: Material *Steel* Thickness: Sides *15/32"* Back *15/32"* Top *15/32"* Bottom *13/16"* Pitch of stays to ditto: Sides *Y 7/8" x Y 7/8"* Back *Y 7/8" x Y 7/8"* Top *Y 7/8" x Y 7/8"* If stays are fitted with nuts or riveted heads *lute* Working pressure by rules *108 lbs* Material of stays *Iron* Area at smallest part *1.19 sq in* Area supported by each stay *62 sq in* Working pressure by rules *115 lbs* End plates in steam space: Material *Steel* Thickness *1 3/16"*
 Pitch of stays *15 1/4" x 7 1/4"* How are stays secured *d. r. washers* Working pressure by rules *119.8 lbs* Material of stays *Steel* Area at smallest part *3.26 sq in*
 Area supported by each stay *259.25 sq in* Working pressure by rules *130 lbs* Material of Front plates at bottom *Steel* Thickness *3/16"* Material of lower back plate *Steel* Thickness *3/16"* Greatest pitch of stays *13" x 7 7/8"* Working pressure of plate by rules *197.5 lbs* Diameter of tubes *3"*
 Pitch of tubes *4 1/8" x 4 1/8"* Material of tube plates *Steel* Thickness: Front *13/16"* Back *19/32"* Mean pitch of stays *12 3/4" x 8 1/4"* Pitch across wide water spaces *1 1/4"* Working pressures by rules *120.7 lbs* Girders to Chamber tops: Material *Steel* Depth and thickness of order at centre *6 1/2" x 1"* Length as per rule *24 3/4"* Distance apart *4 7/8"* Number and pitch of Stays in each *2. 7 7/8"*
 Working pressure by rules *111.4 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 *✓* Pitch of rivets *✓* Working pressure of shell by rules *✓* Diameter of flue *✓* Material of flue plates *✓* Thickness *✓* 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,

Manufacturer.

Is the approved plan of boiler forwarded herewith

Total No. of visits *8*

Dates During progress of work in shops - *1913 Mar 13. 17. 21. Apr. 1. 4. 14. 18. 24.*
 while building During erection on board vessel - *See machinery report*

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

This boiler has been built under special survey: the material & workmanship is good. It has been efficiently mounted & fitted on board. The safety valves are to be adjusted at Sunderland (Surveyors advised).
 Boiler has been satisfactorily fitted on the main deck of the vessel & its safety valves adjusted as above.

Survey Fee *£ 2 : 2 : -* When applied for *See Machinery Report*
 Travelling Expenses (if any) *£ : : -* When received, *19*

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

Committee's Minute TUE. JUL. 8-1913

signed

See minute on Old N. 25. 7. 35



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Foundation