

REPORT ON BOILERS.

No. 10603.

Received at London Office

SAT. FEB. 14. 1914

of writing Report *9th Feb. 1914* When handed in at Local Office *13-2-1914* Port of *Antwerp*
 Description of *Bo. in* Survey held at *Seraing & Hoboken* Date, First Survey *27th May 1913* Last Survey *5th February 1914*
 stment *Book.* *6.40 on the Steel twin & sr. "Star Michael Theodorowitch"* (Number of Visits *13*) Gross *2785*
 Length *18. Schaga* Built at *Hoboken* By whom built *Sr. An. John Cockwill* When built *1914*
 Rivets *Seraing* By whom made *Sr. An. John Cockwill* When made *1914*
 Plates *Seraing* By whom made *Sr. An. John Cockwill* When made *1914*
 Status *18. Schaga* Owners *Russian Steam Navigation & Trading Co.* Port belonging to *Odessa.*
 ed Horse Power *417*

TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel

Selankishner Bazar, A.S., Rube-type
(Germany) and S. An. John Cockwill, Seraing.

for record *5* Total Heating Surface of Boilers *710 sq. ft.* Is forced draft fitted *no* No. and Description of
one single-ended multibubular Working Pressure *180 lbs.* Tested by hydraulic pressure to *360 lbs.* Date of test *10-9-13*
 Certificate *35* Can each boiler be worked separately *✓* Area of fire grate in each boiler *24 sq. ft.* No. and Description of
 valves to each boiler *Two - spring loaded* Area of each valve *3.14 sq. in.* Pressure to which they are adjusted *180 lbs.*
 fitted with easing gear *yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *no*
 distance between boilers or uptakes and bunkers or woodwork *✓* Mean dia. of boilers *9'-3 1/2"* Length *8'-8 1/2"*
 of shell plates *Steel* Thickness *55/64"* Range of tensile strength *28-32 tons* Are the shell plates welded or flanged *no*
 of riveting: cir. seams *d. riv.* long. seams *h. riv. d. b. s.* Diameter of rivet holes in long. seams *1" nearly* Pitch of rivets *6 3/8"*
 plates or width of butt straps *1'-3"* Per centages of strength of longitudinal joint *102* Working pressure of shell by
197 lbs. Size of manhole in shell *15 3/4" x 11 3/8"* Size of compensating ring *30 3/4" x 24 3/4"* No. and Description of Furnaces in each
2 corr. (Main) Material *Steel* Outside diameter *2'-11 7/16"* Length of plain part *top* Thickness of plates *crown*
 of longitudinal joint *welded* No. of strengthening rings *✓* Working pressure of furnace by the rules *182 lbs.* Combustion chamber
 Material *Steel* Thickness: Sides *9/16"* Back *9/16"* Top *9/16"* Bottom *45/64"* Pitch of stays to ditto: Sides *7 1/2"* Back *7 1/2" x 1 1/8"*
 If stays are fitted with nuts or riveted heads *nuts* Working pressure by rules *181 lbs.* Material of stays *Steel* Diameter at
 part *1 1/2"* Area supported by each stay *57 sq. in.* Working pressure by rules *217 lbs.* End plates in steam space: Material *Steel* Thickness *53/64"*
 stays *1'-2 3/8"* How are stays secured *d. nuts & riv. washers* Working pressure by rules *217 lbs.* Material of stays *Steel* Diameter at smallest part *2 3/4"*
 supported by each stay *206 sq. in.* Working pressure by rules *240 lbs.* Material of Front plates at bottom *Steel* Thickness *53/64"* Material of
 back plate *Steel* Thickness *53/64"* Greatest pitch of stays *11"* Working pressure of plate by rules *194 lbs.* Diameter of tubes *3"*
 tubes *4 3/8" nearly* Material of tube plates *Steel* Thickness: Front *53/64"* Back *41/64"* Mean pitch of stays *8 1/2"* Pitch across wide
 spaces *1'-1 1/2"* Working pressures by rules *208 lbs.* Girders to Chamber tops: Material *Steel* Depth and thickness of
 at centre *2 x 5 1/2" - 35/64"* Length as per rule *1'-5 5/8"* Distance apart *1/32"* Number and pitch of Stays in each *One*
 g pressure by rules *227 lbs.* Superheater or Steam chest: how connected to boiler *✓* Can the superheater be shut off and the boiler worked
 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 *✓*
 ned with rings *✓* Distance between rings *✓* Working pressure by rules *✓* End plates: Thickness *✓* How stayed *✓*
 g pressure of end plates *✓* Area of safety valves to superheater *✓* Are they fitted with easing gear *✓*

Signature: Anonymous John Cockwill,
Le Secrétaire, L'Es-Directeur Général
Manufacturer.

During progress of *1913. May 27, June 19, 24 July 26 Aug. 12, 19, 27* Is the approved plan of boiler forwarded herewith *yes*
 work in shops -- *Sept. 3, 1910.* Please return same for upper vessel. *Plans returned 17/2/14.*
 During erection on *1913. - Nov. 3, 17 Dec. 1 - 1914 Feb. 5.* Total No. of visits *9 + 4*

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

The material and workmanship are good.
The boiler has been built under special survey.

Survey Fee ... £ *See 1st & 2nd* When applied for, *191*
 Travelling Expenses (if any) £ : : When received, *191*

M. H. L. & Edgar M. H. L.
 Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.

TUE. MAR. 3 - 1914
 FRI. AUG. 28. 1914

Committee's Minute

Assigned

see Minute on

ant. Rpt 10603

attached

Lloyd's Register
 Foundation

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