

REPORT ON BOILERS.

No. 10603.

Received at London Office

JAN. FEB. 14. 1914

Writing Report *9th Feb. 1914* When handed in at Local Office *13-2-1914* Port of *Antwerp*
 Date, First Survey *27th May 1913* Last Survey *5th February 1914*
 Description of *Boiler* in Survey held at *Seraing & Hoboken* (Number of Visits *13*) Gross *2785*
 Tons Net *1971*
 Length *6.40* on the *Steel* *Iron & Sr.* "*Star Michael Theodorowitch*"
 Built at *Hoboken* By whom built *Sr. An. John Cockeill* When built *1914*
 Rivets *Seraing* By whom made *Sr. An. John Cockeill* When made *1914*
 Plates *Seraing* By whom made *Sr. An. John Cockeill* When made *1914*
 Horse Power *417* Owners *Russian Steam Navigation & Trading Co.* Port belonging to *Russia.*

TUBULAR BOILERS - MAIN, AUXILIARY OR DONKEY. - Manufacturers of Steel *Selankirchner, Berlin, A.G., Rott-lyde (Germany) and Sr. An. John Cockeill, Seraing.*

for record *5* Total Heating Surface of Boilers *710 sq. ft.* Is forced draft fitted *no* No. and Description of
one single-ended multitubular 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 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 rivets *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
 Material *Steel* Outside diameter *2'-11 7/16"* Length of plain part *top* Thickness of plates *bottom* *1 1/2" nearly*
 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 3/32"* Back *7 3/32" x 7 3/32"*
 If stays are fitted with nuts or riveted heads *no* 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 *21 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 *21 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 3/32"* Material of tube plates *Steel* Thickness: Front *53/64"* Back *41/64"* Mean pitch of stays *8 17/64"* Pitch across wide
 spaces *1'-1 1/32"* Working pressures by rules *208 lbs.* Girders to Chamber tops: Material *Steel* Depth and thickness of
 at centre *2 x 5 1/4" - 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
 end 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

Societe Anonyme John Cockeill,
Le Secretaire, Les Directeurs Generaux
 Manufacturer.

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

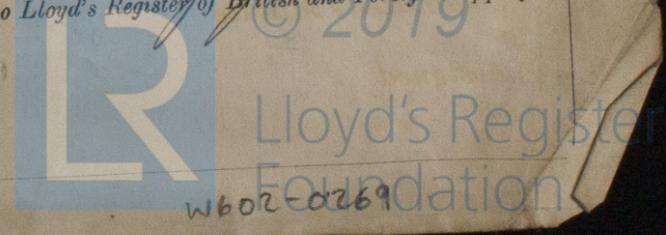
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The material and workmanship are good.
The boiler has been built under special survey.

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

M. Hilly & *Edgar M. Wood*
 Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.

TUE. MAR. 3-1914
 FRI. FEB. 27. 1914
 FRI. AUG. 28. 1914

Committee's Minute
 Assigned *see Minute on Ant. Rpt 10603 attached*



W602-0269