

REPORT ON BOILERS.

No. 17937

Received at London Office

21 DEC. 1921

Date of writing Report *etc* 1921 When handed in at Local Office *14/12/1921* Port of *Greenwich*
 No. in Survey held at *Greenwich* Date, First Survey *4th Febry, 1921* Last Survey *9th Decr 1921*
 Reg. Book. *on the Steel Steamer "Jing Sang"* (Number of Visits *32*) Tons { Gross *2256*
 Net *1232*
 Master *Built at Port Glasgow* By whom built *Dunlop Munro & Co* When built *1922*
 Engines made at *Port Glasgow* By whom made *Dunlop Munro & Co* When made *1922*
 Boilers made at *Greenwich* By whom made *John S Kincaid & Co* When made *1921*
 Registered Horse Power *Owners* *Indo China P. & C. Co* Port belonging to *London*

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Cochrane & Co, Glasgow*
 (Letter for record *S*) Total Heating Surface of Boilers *4435 sq ft* Is forced draft fitted *yes* No. and Description of Boilers *Two single ended* Working Pressure *180 lb* Tested by hydraulic pressure to *320 lb* Date of test *7/12/21*
 No. of Certificate *1593* Can each boiler be worked separately *yes* Area of fire grate in each boiler *52.5 sq ft* No. and Description of safety valves to each boiler *Two opening* Area of each valve *8.29 sq in* Pressure to which they are adjusted *185 lb*
 Are they fitted with easing gear *yes* In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler *yes*
 Smallest distance between boilers or uptakes and bunkers or woodwork *27"* Mean dia. of boilers *14'3"* Length *11'6"*
 Material of shell plates *Steel* Thickness *1 1/16"* Range of tensile strength *28/32* Are the shell plates welded or flanged *yes*
 Descrip. of riveting: *Long. seams all in lap* long. seams *all shop rivets* Diameter of rivet holes in long. seams *1 1/4"* Pitch of rivets *8 1/4"*
 Lap of plates or width of butt straps *18 7/8"* Per centages of strength of longitudinal joint *87.72* Working pressure of shell by rules *188 lb* Size of manhole in shell *16" x 12"* Size of compensating ring *14 1/4"* No. and Description of Furnaces in each boiler *3 Diagonal* Material *Steel* Outside diameter *44 1/4"* Length of plain part *top 17 1/2"* Thickness of plates *bottom 17 1/2"*
 Description of longitudinal joint *welded* No. of strengthening rings *none* Working pressure of furnace by the rules *184 lb* Combustion chamber plates: Material *Steel* Thickness: Sides *1 1/16"* Back *1 1/16"* Top *1 1/16"* Bottom *1 1/16"* Pitch of stays to ditto: Sides *9 1/2"* Back *9 1/2"* Top *9 1/2"* If stays are fitted with nuts or riveted heads *none* Working pressure by rules *183 lb* Material of stays *Steel* Diameter at smallest part *1.79"* Area supported by each stay *85.5 sq in* Working pressure by rules *188 lb* End plates in steam space: Material *Steel* Thickness *1 7/16"*
 Pitch of stays *19:20* How are stays secured *all nuts* Working pressure by rules *185 lb* Material of stays *Steel* Diameter at smallest part *6.66"* Area supported by each stay *380 sq in* Working pressure by rules *182 lb* Material of Front plates at bottom *Steel* Thickness *3 1/2"* Material of Lower back plate *Steel* Thickness *2 7/16"* Greatest pitch of stays *13 1/2"* Working pressure of plate by rules *186 lb* Diameter of tubes *2 1/2"*
 Pitch of tubes *3 3/4"* Material of tube plates *Steel* Thickness: Front *3 1/2"* Back *2 3/16"* Mean pitch of stays *9 1/2"* Pitch across wide water spaces *13 1/2"* Working pressures by rules *184 lb* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *9 1/8" x 1 1/2"* Length as per rule *52.6"* Distance apart *9"* Number and pitch of Stays in each *three 8 1/2"*
 Working pressure by rules *185 lb* 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

Request B.47 attached

The foregoing is a correct description,
FOR JOHN G. KINCAID & COY., LIMITED.

Robert Greer

Manufacturer.

Dates of Survey { During progress of work in shops - - - 1921. Feb. 4-10. Mar. 18-22. Apr. 7. Sept. 16-20. 22-28. 30. Oct. 4-5. 7-10. Is the approved plan of boiler forwarded herewith *yes*
 while building { During erection on board vessel - - - 12-14. 18-21. 25-28. Nov. 1-2. 8-10. 17-23. 25-30. Dec. 2-7. 9. Total No. of visits *32*

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

These main boilers have been constructed under special survey in accordance with the approved Rules and tested by hydraulic pressure and found good. Will be fitted on board the above named vessel at Port Glasgow.

Survey Fee ... £ *31 : 0* : When applied for, *14/12/1921*
 Travelling Expenses (if any) £ : : When received, *4/1/1922*

James Jones.

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

Committee's Minute

GLASGOW

20 DEC 1921

Assigned

TRANSMIT TO LONDON

GLASGOW

21 FEB 1922

See Rpt. No. 17937

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