

SAT. 12 OCT 1907

Date of writing Report _____
 No. in Survey held at _____
 Reg. Book. _____
 on the A Fleet Barge for Stock.
 Master _____
 Engines made at _____
 Boilers made at _____
 Registered Horse Power _____
 When handed in at Local Office 11 Oct 1907
 Port of Grimsey
 Date, First Survey Dec 7^d 1906
 Last Survey Oct. 4th 1907
 (Number of Visits 49)
 Tons { Gross _____
 Net _____
 Built at _____
 By whom built _____
 When built _____
 By whom made _____
 when made _____
 By whom made Gt Central Co-op. Exch. Co. Ltd
 when made 1907
 Owners _____
 Port belonging to _____

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel *Stearns & Co. Inc.* *London, Leeds & Co.*

(Letter for record *S.*) Total Heating Surface of Boilers *1340* [#] Is forced draft fitted *No.* and Description of Boilers *Single Ended Marine Type* Working Pressure *180 lb.* Tested by hydraulic pressure to *360 lb.* Date of test *4/10/07*

No. of Certificate *62.* Can each boiler be worked separately *Area of fire grate in each boiler* *34.7* [#] No. and Description of safety valves to each boiler *Area of each valve* *Pressure to which they are adjusted*

Are they fitted with easing gear *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 *Mean dia. of boilers* *12'-6"* Length *10'-0"*

Material of shell plates *Steel* Thickness *1 3/32* Range of tensile strength *27 3/32 tons* Are the shell plates welded or flanged *No.*

Descrip. of riveting: cir. seams *L.D.R.* long. seams *D.S. T.R.* Diameter of rivet holes in long. seams *18'* Pitch of rivets *7 3/4*

Lap of plates or width of butt straps *16 7/8* Per centages of strength of longitudinal joint *87-125* Working pressure of shell by rules *85.5*

Size of manhole in shell *16' x 12'* Size of compensating ring *2'-8" x 2'-4"* No. and Description of Furnaces in each boiler *2 plain* Material *Steel* Outside diameter *3'-7"* Length of plain part *top 5'-11 1/2"* Thickness of plates *bottom 3/4"*

Description of longitudinal joint *weld.* No. of strengthening rings *Working pressure of furnace by the rules* *179 lb.* Combustion chamber plates: Material *Steel* Thickness: Sides *2 1/32* Back *2 1/32* Top *2 1/32* Bottom *13/16* Pitch of stays to ditto: Sides *8 3/4 x 9 1/4* Back *8 3/4 x 9*

Top *8 1/2 x 9 1/4* If stays are fitted with nuts or riveted heads *auto.* Working pressure by rules *194 lb.* Material of stays *Steel* Diameter at smallest part *1-6 3/4"* Area supported by each stay *5 1/2* Working pressure by rules *23 lb.* End plates in steam space: Material *Steel* Thickness *18'*

Pitch of stays *17 1/2 x 18* How are stays secured *Stk. Nuts* Working pressure by rules *180 lb.* Material of stays *Steel* Diameter at smallest part *2-9 1/4"*

Area supported by each stay *3 1/5* Working pressure by rules *210 lb.* Material of Front plates at bottom *Steel* Thickness *1'* Material of Lower back plate *Steel* Thickness *7/16* Greatest pitch of stays *15"* Working pressure of plate by rules *180 lb.* Diameter of tubes *3 1/4 x 4*

Pitch of tubes *4 1/2 x 4 1/2* Material of tube plates *Steel* Thickness: Front *1'* Back *3/4"* Mean pitch of stays *9"* Pitch across wide water spaces *14 1/4* Working pressures by rules *192 lbs.* Girders to Chamber tops: Material *Steel* Depth and thickness of girder at centre *8 1/2 x 1 1/2* Length as per rule *2-7 5/8* Distance apart *8 1/4* Number and pitch of Stays in each *2-9 1/4*

Working pressure by rules *183 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*

The foregoing is a correct-description,

For the GREAT CENTRAL CO-OPERATIVE

Manufacturer.

ENGINEERING & SHIP REPAIRING COMPANY, LTD. Manufacturer.

Dates of Survey while building	During progress of work in shops -	During erection on board vessel -	Total No. of visits
1906. Dec. 7, 13, 14, 10; 1907. Jan. 1, 4, 8, 10, 16, 21, 24, 28, 29, 30.	Feb. 5, 8, 14, 19, 23, 27. Mar. 4, 7, 11, 14, 18, 28. Apr. 8, 12, 17, 18.	May 3, 7, 12, 17, 22, 23. June 4, 6, 10, 15, 19. July 7, 22, 24, 29.	49

Is the approved plan of boiler forwarded herewith *Yes Copy*

Fred. H. Lester

GENERAL REMARKS

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

built under Special Survey, the materials & workman-
-ship are good and on completion the bale satisfactory
withstood a hydraulic test of 360 lbs per sq. inch.

Survey Fee £ 4 : 4 : 0. When applied for, 11th Oct. 1907.
Travelling Expenses (if any) £ : : When received, 14-12-07.

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

Committee's Minute

Assigned

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