

Rpt. 5a.

REPORT ON BOILERS

No. 8459.

WED. DEC. 11. 1912
MON. NOV. 11. 1912

Received at London Office

Date of writing Report 1912 When handed in at Local Office 9/11/12 Port of Grimsby
 No. in Survey held at Grimsby Date, First Survey 4/7/12 Last Survey 3/10/1912
 Reg. Book. on the steel boiler N° 444 for gr Elie Chenevire (Number of Visits 21) Tons } Gross }
 } Net }
 Master Built at By whom built When built
 Engines made at By whom made When made
 Boilers made at Grimsby By whom made P. Central Co-op. Eng. S.R. Co. When made 1912
 Registered Horse Power Owners Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Phoenix Akt Ges. abt Horder Verein

(Letter for record S) Total Heating Surface of Boilers 1057^{sq} Is forced draft fitted No. and Description of Boilers one S.E. return tube Working Pressure 180 lb. Tested by hydraulic pressure to 360 Date of test 3/10/12
 No. of Certificate 106 Can each boiler be worked separately Area of fire grate in each boiler 30^{sq} 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 11-0 Length 9-6
 Material of shell plates S Thickness 1 Range of tensile strength 29/32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams double long. seams treble butt Diameter of rivet holes in long. seams 1 Pitch of rivets 7
 Lap of plates or width of butt straps 15 Per centages of strength of longitudinal joint rivets 84.1 plate 85.7 Working pressure of shell by rules 189 Size of manhole in shell 12x16 Size of compensating ring 16x16+1/8 No. and Description of Furnaces in each boiler 2 plain Material S Outside diameter 39 Length of plain part top 70 Thickness of plates crown 23/32 bottom 3/4
 Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 186 Combustion chamber plates: Material S Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 3/4 Pitch of stays to ditto: Sides 8 3/4 8 1/2 Back 8 3/4 8 1/2 Top 8 3/4 8 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182 Material of stays S Diameter at smallest part 1.79 Area supported by each stay 74.5 Working pressure by rules 192 End plates in steam space: Material S Thickness 1 Pitch of stays 16x16 How are stays secured d. nuts + washers Working pressure by rules 188 Material of stays S Diameter at smallest part 5.05 Area supported by each stay 256 Working pressure by rules 197 Material of Front plates at bottom S Thickness 15/16 Material of Lower back plate S Thickness 15/16 Greatest pitch of stays 13.6 Working pressure of plate by rules 204 Diameter of tubes 3/4 Pitch of tubes 4 1/2 Material of tube plates S Thickness: Front 15/16 Back 2/32 Mean pitch of stays 9 Pitch across wide water spaces 14 1/4 Working pressures by rules 180 Girders to Chamber tops: Material S Depth and thickness of girder at centre 2-8x5/8 Length as per rule 26.5 Distance apart 8 Number and pitch of Stays in each 2-8 1/2 Working pressure by rules 215 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 GREAT CENTRAL CO-OPERATIVE
 The foregoing is a correct description
 of the boiler and its fittings
 Fred Rister Manufacturer.

Dates of Survey } During progress of } July 4. 12. 17. 24. 29 Aug 8. 22 Sep 4. 6. 13. 17 Oct 4 } Is the approved plan of boiler forwarded herewith } } Yes
 while } 9. 11. 17. 19. 21. 23. 25. 29. 31 }
 building } During erection on }
 } board vessel } Total No. of visits 21

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The workmanship of this boiler is good, and it has been built in accordance with the approved plan. The material tested in accordance with rule requirements. The boiler has been shipped to Ymuiden to be fitted on steam trawler Elie Chenevire.

Survey Fee ... £ 3 : 10 : } When applied for, 9/11/12
 Travelling Expenses (if any) £ : : } When received, 1/3/13
 C. M. Smith & W. H. Roberts
 Engineer Surveyors to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. DEC. 13. 1912
 Assigned Rpt. Ans. 12. 11. 12. See Minute on Ans. Rpt. 5433
 Lloyd's Register Foundation
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