

REPORT ON BOILERS.

THU. MAY 27 1920
No. 27820

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Date of writing Report 26 MAY 1920 When handed in at Local Office 26 MAY 1920 Port of SUNDERLAND
 No. in Survey held at SUNDERLAND Date, First Survey 13 Feb 1920 Last Survey 14 May 1920
 Reg. Book. on the Messrs G. Clark's 110 3/4 Boiler s. "Emlynion" (Number of Visits) Gross Tons }
 Master Built at Lowestoft By whom built Chambers Ltd No 502 When built 1920
 Engines made at S. Shields By whom made Messrs G. J. Gray No 607 When made 1920
 Boilers made at Sunderland By whom made Messrs G. Clark Ltd No 110 3/4 When made 1920
 Registered Horse Power Owners Emlyn Line Ltd Port belonging to Cardiff

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Spencer & Sons

(Letter for record S) Total Heating Surface of Boilers 1844 sq ft Is forced draft fitted no No. and Description of Boilers one single End Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 14.5.20
 No. of Certificate 3687 Can each boiler be worked separately ✓ Area of fire grate in each boiler No. and Description of safety valves to each boiler 2 Spring Loaded Area of each valve 5.9 sq in Pressure to which they are adjusted 185 lbs
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No
 Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 14'-0" Length 10'-6"
 Material of shell plates S Thickness 1 1/8 Range of tensile strength 28-32 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams lap 1/2" long. seams d. 1 1/2" riv. Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 8 3/8
 Lap of plates or width of butt straps 18" Per centages of strength of longitudinal joint rivets 87 plate 86 Working pressure of shell by rules 182 Size of manhole in shell 12 x 16 Size of compensating ring 8 x 1 3/16 No. and Description of Furnaces in each boiler 3 Nightm's Material S Outside diameter 3'-7" Length of plain part top - bottom - Thickness of plates crown 3 3/32 bottom 3 64
 Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 182 Combustion chamber plates: Material S Thickness: Sides 23/32 Back 1/16 Top 23/32 Bottom 23/32 Pitch of stays to ditto: Sides 9 1/4 x 9 1/2 Back 9 3/4 x 8 7/8
 Top 9 x 9 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 188 Material of stays S Area at smallest part 2.03 sq in Area supported by each stay 86 sq in Working pressure by rules 207 End plates in steam space: Material S Thickness 1 1/32
 Pitch of stays 22 + 17 3/4 How are stays secured d. n. r. w. Working pressure by rules 184 Material of stays S Area at smallest part 6.49 sq in
 Area supported by each stay 370 sq in Working pressure by rules 182 Material of Front plates at bottom S Thickness 1 3/16 Material of lower back plate S Thickness 1 5/16 Greatest pitch of stays 14 3/4 Working pressure of plate by rules 194 Diameter of tubes 3 1/2
 Pitch of tubes 4 1/2 x 4 3/8 Material of tube plates S Thickness: Front 1 3/16 Back 3/4 Mean pitch of stays 11 1/4 x 5 3/4 Pitch across wide water spaces 14 1/4 d. n. r. w. Working pressures by rules 262 Girders to Chamber tops: Material S Depth and thickness of girder at centre 7 3/8 x 1 3/4 Length as per rule 30 Distance apart 9" Number and pitch of Stays in each 2, 9 1/4
 Working pressure by rules 181 Steam dome: description of joint to shell ✓ % of strength of joint -
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type - Date of Ap. rev. of Plan - Tested by Hydraulic Pressure to -
 Date of Test - Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler -
 Diameter of Safety Valve - Pressure to which each is adjusted - Is Easing Gear fitted -

The foregoing is a correct description,
 FOR GEORGE CLARK LIMITED
W. G. B. Smith Manufacturer.

Dates Survey Feb 12, 26, Mar 22, Apr 2, 4, 22, May 6, 10, 14 Is the approved plan of boiler forwarded herewith Yes
 while - During erection on board vessel - Total No. of visits -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
This boiler has been built under special survey, the materials and workmanship are sound and good. It was built to the order of Messrs G. J. Gray, S. Shields engine No 608

Survey Fee ... £ 6 : 3 : } When applied for, 26 MAY 1920
 Travelling Expenses (if any) £ : : } When received, as per letter 191 14P
from Messrs. G. Clark 18.6.20

Committee's Minute FRI. 25 FEB. 1921
 signed See minute on Ave 73508

