

REPORT ON BOILERS.

No. 79543
WEB. 14 JAN. 1920

(Boiler No. 2010)

Received at London Office

Date of writing Report

191

When handed in at Local Office

6 SEP 1919 Port of

LIVERPOOL

WEB 388 18 19 19

Location of Safety No. in Survey held at Birkenhead Date, First Survey March 26th Last Survey Aug 27th 1919
 Reg. Book. on the s/s No. 305 "S. Glasford" (Number of Visits 31) Tons { Gross / Net
 Master Built at Ardrossan By whom built Ardrossan S.B. & D.D. Co. Ld. When built
 Engines made at Glasgow By whom made W. & A. R. & Co. When made
 Boilers made at Birkenhead By whom made Cammell, Laird & Co. Ld. When made 1919
 Registered Horse Power Owners Mann, Macneal & Co. Ld. Port belonging to Glasgow

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.

Manufacturers of Steel
J. & S. Brown & Co. Ld.
Park Gate, S. & P. Co. Ld.
Wigan, S. & P. Co. Ld.

Letter for record S Total Heating Surface of Boilers 4500 Is forced draft fitted
 Boilers 2 Cylindrical Multitubular Single Ended Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 21/9/19, 27/9/19
 Certificates 2064, 2067 Can each boiler be worked separately
 Area of fire grate in each boiler 62 sq. ft. No. and Description of
 Area of each valve Pressure to which they are adjusted
 In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
 Mean dia. of boilers 15'6" Length 10'6"
 Material of shell plates Steel Thickness 1 3/4" Range of tensile strength 28/32 tons Are the shell plates welded or flanged No.
 Rivets: cir. seams DR. Lap. long. seams TR. Double Butt Diameter of rivet holes in long. seams 1 5/8" Pitch of rivets 9"
 Per centages of strength of longitudinal joint rivets 98.2 Working pressure of shell by plate 95.41
 Size of manhole in shell 16" x 12" Size of compensating ring trisked No. and Description of Furnaces in each
 Material Steel Outside diameter 4' 1 1/2" Thickness of plates crown 3 3/4" bottom 3 1/4"
 Working pressure of furnace by the rules 185 lbs Combustion chamber
 Thickness: Sides 1/2" Back 1/2" Top 1/2" Bottom 1/2" Pitch of stays to ditto: Sides 9" x 9" Back 9 1/2" x 9 1/2"
 Working pressure by rules 195 lbs Material of stays Steel Area at
 Working pressure by rules 199 lbs End plates in steam space: Material Steel Thickness 1 1/2"
 Working pressure by rules 153 lbs Material of stays Steel Area at smallest part 5.29 sq. in.
 Working pressure by rules 186.7 lbs Material of Front plates at bottom Steel Thickness 5/8" Material of
 Thickness 5/8" Greatest pitch of stays 15 1/2" x 10 1/2" Working pressure of plate by rules 193 lbs Diameter of tubes 3 1/2" cat.
 Material of tube plates Steel Thickness: Front 1 3/8" Back 1 3/8" x 3/4" Mean pitch of stays 10 1/2" x 8 1/2" Pitch across wide
 Working pressures by rules 263 lbs Girders to Chamber tops: Material Steel Depth and thickness of
 Length as per rule 2'8" Distance apart 9" Number and pitch of Stays in each 2-9 1/2"
 Steam dome: description of joint to shell % of strength of joint
 Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Working pressure of shell by rules Crown plates Thickness How stayed
 SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Pressure to which each is adjusted Is Easing Gear fitted

The foregoing is a correct description,
CAMMELL LAIRD AND COMPANY LIMITED.
J. W. ... Manufacturer.

During progress of work in shops - - - 16. 20. 25. July 1. 2. 4. 8. 11. 14. 23. 25. Aug 1. 13. 21. 26. 27.
 During erection on board vessel - - -
 Is the approved plan of boiler forwarded herewith (Forwarded to him with his Rpt 79408 on 8.8.19 - not returned)
 Total No. of visits 31

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These boilers have been constructed under
Survey in accordance with the approved plan and the Secretary's letter (E) of the 2nd October 1918.
materials and workmanship are of good quality. When tested by water to twice the
working pressure the boilers were found tight and satisfactory in every respect

When applied for 6 SEP 1919
 When received 17.10. 1919
 LIVERPOOL 9 SEP 1919
 Transmit to London.
 R. G. Deford
 Engineer Surveyor to Lloyd's Register of Shipping.
 13 JAN 1920
 Glasgow
 Lloyd's Register Foundation