

Still Rpt No. 32014
REPORT ON BOILERS.

No. 4555.

Received at London Office TUE. AUG. 27. 1920
Date of writing Report 1920 When handed in at Local Office 9-4-20 Port of Manchester.
No. in Survey held at Leeds Date, First Survey 11th Feb 1919 Last Survey 26th March 1920.
Reg. Book. on the Admiralty Drifter Boiler for N^o 1 Vessel Drifter "Chimera" Tons Gross 95 Net 42
Built at Wintertingham By whom built Routh & Waddingham When built 1920.
Engines made at Sowerby Bridge By whom made Pollitt & Wiggell, Ltd. When made 1920
Boilers made at Leeds By whom made Messrs Clayton Son & Co. Ltd. When made 1920.
Registered Horse Power Owners Admiralty Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Spencer & Sons Newcastle-on-Tyne.

Letter for record S Total Heating Surface of Boilers 1810 sq. ft. Is forced draft fitted No. and Description of
Boilers 1 cyl. Single ended return tube Working Pressure 180 lbs/sq. in. Tested by hydraulic pressure to 360 lbs/sq. in. Date of test 26.3.20
No. of Certificate 56 Can each boiler be worked separately Area of fire grate in each boiler 30 sq. ft. No. and Description of
Safety valves to each boiler 2 spring loaded Area of each valve 3.98 sq. in. Pressure to which they are adjusted 180 lbs.
Are they fitted with easing gear yes 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 7" Mean dia. of boilers 120.84" Length 9'6"
Material of shell plates Steel Thickness 27/32 Range of tensile strength 28/32 Are the shell plates welded or flanged Flanged.
Description of riveting: cir. seams Double long. seams Triple riveted Diameter of rivet holes in long. seams 15/16 Pitch of rivets 7"
Width of butt straps 1'-1 3/4" Per centages of strength of longitudinal joint rivets 86.7 plate 86.6 Working pressure of shell by
Rules 181 lbs Size of manhole in shell 12" x 16" Size of compensating ring 6" x 27/32 No. and Description of Furnaces in each
Boiler Two plain Material steel Outside diameter 3'-2" Length of plain part top 6'-4 1/2" Thickness of plates crown 11/16 bottom 11/16
Description of longitudinal joint Lap welded No. of strengthening rings one Working pressure of furnace by the rules 180 lbs Combustion chamber
Material Steel Thickness: Sides 9/16 Back 9/16 Top 9/16 Bottom 9/16 Pitch of stays to ditto: Sides 8" x 7 1/4" Back 8" x 7 1/2"
Top 8" x 7" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182 lbs Material of stays Steel Area at
Smallest part 1'-4 8" Area supported by each stay 60 sq. in. Working pressure by rules 196 lbs End plates in steam space: Material Steel Thickness 7/8"
Pitch of stays 14" x 14" How are stays secured nuts & washers Working pressure by rules 185 lbs Material of stays Steel Area at smallest part 3'-6 4/10"
Area supported by each stay 196 sq. in. Working pressure by rules 187 lbs Material of Front plates at bottom Steel Thickness 7/8" Material of
Lower back plate Steel Thickness 7/8" Greatest pitch of stays 16 1/2" x 12" Working pressure of plate by rules 182 lbs Diameter of tubes 3 1/4"
Pitch of tubes 4 3/8" x 4 1/4" Material of tube plates Steel Thickness: Front 7/8 Back 11/16 Mean pitch of stays 8 1/4" x 10 3/8" Pitch across wide
Water spaces 1'-1 1/4" Working pressures by rules 185 lbs Girders to Chamber tops: Material Steel Depth and thickness of
Order at centre 8" x 1 1/8" Length as per rule 29" Distance apart 7" Number and pitch of Stays in each 25T. 8" P.
Working pressure by rules 191 lbs 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 Approval 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

CLAYTON, SON, & CO. LIMITED.
The foregoing is a correct description,

For Clayton & Co. Ltd. Manufacturer.
J. H. Clayton & Co. Ltd. DIRECTOR.
13/4/20

Dates During progress of work in shops - 1919 11/2, 21/2, 28/3, 25/4, 16/5, 6/6, 20/6, 4/7, 18/7, 25/7, 15/8, 19/9, 26/9, 7/10, 27/10, 3/11, 7/11, 14/11, 5/12, 1920 9/1, 23/1
While During erection on board vessel - 1919 17/2, 5/3, 14/3
Is the approved plan of boiler forwarded herewith
Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under survey and the materials tested according to the rules of the Society. The workmanship is good and the boiler has been tested by hydraulic pressure to 360 lbs per sq. inch and found tight. The boiler is eligible in my opinion to be classed and to have record survey when the mountings have been fitted and safety valves adjusted under steam to 180 lbs/sq. in. The boiler has been stamped for identification No 56

Survey Fee ... £ 4 : 10 : When applied for, 9-4-20
Travelling Expenses (if any) £ : : When received, 9/6 1920
Committee's Minute FRI. AUG. 13 1920
Assigned See Still Rpt 32014
This boiler has been properly fitted & secured on board the drifter "Chimera" & its safety valves adjusted under steam.
Alfred H. Spence Engineer Surveyor to Lloyd's Register of Shipping.
P. Fitzgerald.
Lloyd's Register Foundation
005961-005980-0183