

REPORT ON BOILERS.

Hull Rpt No. 32533.

No. 11284

Date of writing Report 22<sup>nd</sup> Nov 1919 When handed in at Local Office 24<sup>th</sup> Nov 1919 Port of Grimsby  
No. in Survey held at Grimsby Date, First Survey 12 Aug 1918 Last Survey 6<sup>th</sup> Nov 1919  
Reg. Book. on the Mercury type Boiler A96 Admiralty No. 21 "British Lloyds" Tons Gross  
Master Built at Goole By whom built Goole L.B. Co. When built 1921  
Engines made at Middlesbrough By whom made Richardson Westgarth & Sons When made  
Boilers made at Grimsby By whom made J. Central Co. & L.R. Co. Ltd. When made 1919  
Registered Horse Power 87 Owners British Admiralty. Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Port Salt Steel Co

Letter for record S Total Heating Surface of Boilers 1440 sq ft Is forced draft fitted No. and Description of  
Boilers One S. Multitubular Working Pressure 200 lb Tested by hydraulic pressure to 400 lb Date of test 14.10.19  
No. of Certificate 186 Can each boiler be worked separately Area of fire grate in each boiler 48 sq ft No. and Description of  
Safety valves to each boiler 2, spring loaded Area of each valve 4.9 sq in Pressure to which they are adjusted 205 lb  
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 8 in. lagged. Mean dia. of boilers 13'-9" Length 10'-8"  
Material of shell plates S Thickness 1 5/16 Range of tensile strength 28-32 Are the shell plates welded or flanged No  
Description of riveting: cir. seams Lap & R long. seams D.B. & T.R. Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 5/8  
Pitch of plates or width of butt straps 18 3/8 Per centages of strength of longitudinal joint rivets 85.5 Working pressure of shell by  
rules 202 lb Size of manhole in shell 16x12 Size of compensating ring 7x1 1/4 plate 15  
Boiler 3 Plain Material S Outside diameter 40 Length of plain part top 6'-6 1/2 Thickness of plates crown 13/16 bottom 7/16  
Description of longitudinal joint Weld No. of strengthening rings Working pressure of furnace by the rules 200 Combustion chamber  
plates: Material S Thickness: Sides 3/4 Back 3/2 Top 3/4 Bottom 3/4 Pitch of stays to ditto: Sides 8x10 Back 8 1/2 x 9 3/8  
Pitch 11x8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 210 Material of stays S Area at  
smallest part 2.07 Area supported by each stay 88 sq in Working pressure by rules 210 End plates in steam space: Material S Thickness 1 1/2  
Pitch of stays 19 1/2 x 18 How are stays secured Stubs & washers Working pressure by rules 200 Material of stays S Area at smallest part 7.5  
Area supported by each stay 334 Working pressure by rules 230 Material of Front plates at bottom S Thickness 15/16 Material of  
over back plate S Thickness 15/16 Greatest pitch of stays 13 1/4 x 9 3/4 Working pressure of plate by rules 212 Diameter of tubes 3 1/2  
Pitch of tubes 48 Material of tube plates S Thickness: Front 15/16 Back 7/8 Mean pitch of stays 10.3 Pitch across wide  
inter spaces 14 Working pressures by rules 250 lb Girders to Chamber tops: Material S Depth and thickness of  
order at centre 11x1 1/4 Length as per rule 36 1/2 Distance apart 11 Number and pitch of Stays in each 3 at 8  
Working pressure by rules 200 lb 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

For The Central Co. of Engineering & Ship Repairing Co Ltd

The foregoing is a correct description, Made to Order Manufacturer.

Dates During progress of work in shops - 1918 Aug 12, 20, 31, Sept 13, 19 Oct 3, 31, 25 Nov 5 Dec 6, 21 1919 Jan 30 Feb 11 Mar 8, 13, 25  
Survey while building During erection on board vessel - Apr 2, 13, 24 May 1, 9, 12 June 3, 17, 24, 28 Is the approved plan of boiler forwarded herewith  
July 3, 14, 27 Aug 14, 28 Sept 5, 15, 25 Oct 9, 13, 14 Nov 6 38  
Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under special survey, the materials & workmanship are good & the boiler found satisfactory under hydraulic test. All mountings were tested 400 lb & afterwards fitted to boiler for notation re machinery report.

Survey Fee £ 7-0-6 When applied for 22<sup>nd</sup> Nov 1919  
Travelling Expenses (if any) £ : : When received 9/1 1920  
Committee's Minute FRI. 1 APR. 1921  
Assigned

J. J. Stoddart & Co. Ltd  
Engineer Surveyor to Lloyd's Register of Shipping.

