

REPORT ON BOILERS.

Date of writing Report 23rd Nov 1919 When handed in at Local Office 24th Nov 1919 Port of Grimsby
 No. in Survey held at Grimsby Date, First Survey 12 Aug 1918 Last Survey 6th Nov 1919
 Reg. Book. on the Mersey type Boiler A 96 Admiralty 60 C 31 "Richard Catlett" (Number of Visits 38) Gross Tons }
 Master WILLIAM CHATWOOD 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 Coys L & 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 Saltb. Steel Co

Letter for record S Total Heating Surface of Boilers 1440 sq ft Is forced draft fitted No 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
 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 sq in
 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 tons Are the shell plates welded or flanged No
 descrip. of riveting: cir. seams Lap BR long. seams DRS TR Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 5/8
 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 85.4
 Size of manhole in shell 16x12 Size of compensating ring 7x1 5/16 No. and Description of Furnaces in each Boiler 3 Plain Material S Outside diameter 40" Length of plain part 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
 If stays are fitted with nuts or riveted heads None 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 ✓ Thickness 1 1/2
 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 ✓ Thickness 15/16 Material of cover back plate ✓ 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 4 1/8 Material of tube plates ✓ Thickness: Front 15/16 Back 7/8 Mean pitch of stays 10.3 Pitch across wide tubes spaces 14 Working pressures by rules 250 lb Girders to Chamber tops: Material S Depth and thickness of girder at centre 11x1 3/4 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

PERHEATER. 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 P. H. H. Manufacturer.

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) 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 lbs & afterwards fitted to boiler for notation see machinery report.

Survey Fee £ 7-0-6 When applied for 23rd Nov 1919
 Travelling Expenses (if any) £ : When received 9/1 1920

J. Hodder Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 1 APR. 1921

