

REPORT ON BOILERS.

No. 39058

WED. 3 SEP. 1919

Date of writing Report 27 Aug 1919 When handed in at Local Office 28. 8. 1919 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 19. 3. 19 Last Survey 27 Aug 1919
 Reg. Book. on the Marine Boiler designated No 3841. for export. (Number of Visits 13)
 Master _____ Built at _____ By whom built _____ When built _____
 Engines made at _____ By whom made _____ When made _____
 Boilers made at Glasgow By whom made Muir & Findlay When made 1919
 Registered Horse Power _____ Owners _____ Port belonging to _____

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

(Letter for record 87) Total Heating Surface of Boilers 565 sq ft Is forced draft fitted No. and Description of Boilers One Single Ended Working Pressure 140 Tested by hydraulic pressure to 280 Date of test 12/8/19

No. of Certificate 14848 Can each boiler be worked separately Yes Area of fire grate in each boiler 18 1/2 sq ft No. and Description of safety valves to each boiler two direct spring Area of each valve 2.40 sq in Pressure to which they are adjusted 245 lbs

Are they fitted with casing 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 out dia. of boilers 8'-3" Length 8'-8"

Material of shell plates S Thickness 5/8 Range of tensile strength 25/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams S.R. Lap long. seams Butts. Staggered Diameter of rivet holes in long. seams 3/16 Pitch of rivets 4 3/8
 Lap of plates or width of butt straps 8 1/2 Per centages of strength of longitudinal joint rivets 85 plate 81 Working pressure of shell by rules 146

No. and Description of Furnaces in each boiler one plain Material S Outside diameter 45 ins Length of plain part 69 ins Thickness of plates 2 1/2

Description of longitudinal joint held No. of strengthening rings ✓ Working pressure of furnace by the rules 142 Combustion chamber plates: Material S Thickness: Sides 19/32 Back 22/32 Top 3/4 Bottom 19/32 Pitch of stays to ditto: Sides 7 1/2 x 11 Back 11 1/2 x 10 1/2

Top Wool If stays are fitted with nuts or riveted heads nuts Working pressure by rules 154 Material of stays rolled iron Diameter at smallest part 2.03 sq in Area supported by each stay 120 sq in Working pressure by rules 151 End plates in steam space: Material S Thickness 3/4

Pitch of stays 14" How are stays secured Butts Wash Working pressure by rules 140 Material of stays S Diameter at smallest part 2.66 sq in

Area supported by each stay 1825 sq in Working pressure by rules 140 Material of Front plates at bottom S Thickness 3/4 Material of Lower back plate S Thickness 3/4 Greatest pitch of stays 11 1/2 x 10 1/2 Working pressure of plate by rules 145 Diameter of tubes 3 1/2

Pitch of tubes 14 x 3 1/2 Material of tube plates S Thickness: Front 3/4 Back 3/4 Mean pitch of stays 11" Pitch across wide water spaces 11" Working pressures by rules 178 Girders to Chamber tops: Material Wool Depth and thickness of girder at centre _____ Length as per rule _____ Distance apart _____ Number and pitch of Stays in each _____

Working pressure by rules _____ Superheater or Steam chest; how connected to boiler _____ Can the superheater be shut off and the boiler worked separately _____ Diameter _____ Length _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet _____

holes _____ Pitch of rivets _____ Working pressure of shell by rules _____ Diameter of flue _____ Material of flue plates _____ Thickness _____

If stiffened with rings _____ Distance between rings _____ Working pressure by rules _____ End plates: Thickness _____ How stayed _____

Working pressure of end plates _____ Area of safety valves to superheater _____ Are they fitted with casing gear _____

Survey request form No. 2271 The foregoing is a correct description, Muir & Findlay Manufacturer.

Dates of Survey: During progress of work in shops 1919. Mar 19. Apr 5-28. May 6-14-22-27 Is the approved plan of boiler forwarded herewith Yes
 while building: During erection on board vessel June 4-16-28-30. Aug 5-12. Total No. of visits 13.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boiler has been built under special survey. The workmanship and materials are good. The boiler is to the order of Messrs N. Sisson & Co. Gloucester.

Survey Fee £ 2 : 2 : When applied for, _____
 Travelling Expenses (if any) £ : When received, _____
 MONTHLY ACCOUNT.