

REPORT ON BOILERS.

No. 70065
JUL 25 1917

Received at London Office

Date of writing Report 21st July 1917 When handed in at Local Office 21st July 1917 Port of Newcastle on Tyne
 No. in Survey held at Jarrow Date, First Survey 13th Oct. 1914 Last Survey 19th July 1917
 Reg. Book. 130 on the J S Crockett Hall (Number of Visits 1) Gross 5580 572
 Master Jarrow Built at Newcastle By whom built Palmers S B. Iron Works When built 1917
 Engines made at Jarrow By whom made Palmers S B. Iron Works When made 1917
 Boilers made at Jarrow By whom made Palmers S B. Iron Works When made 1917
 Registered Horse Power 130 Owners Ellerman & Co. Ltd Port belonging to Liverpool

MULTITUBULAR BOILERS —, AUXILIARY — Manufacturers of Steel Spencer & Son Ltd
 (Letter for record S) Total Heating Surface of Boilers 2321 sq ft Is forced draft fitted Yes No. and Description of
 Boilers One, Single Ended Working Pressure 220 lb Tested by hydraulic pressure to 440 lb Date of test 12/12/16
 No. of Certificate 8919 Can each boiler be worked separately Yes Area of fire grate in each boiler 53 sq ft No. and Description of
 safety valves to each boiler Two direct spring Area of each valve 5.93 sq in Pressure to which they are adjusted 225 lb sq in
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 10-8 in Inside Mean dia. of boilers 13-9 in Length 12-3 in
 Material of shell plates Steel Thickness 19/32 Range of tensile strength 29/24-33 ton Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams 2 R Lap long. seams 5 R Butt Diameter of rivet holes in long. seams 15/16 Pitch of rivets 9 in
 Width of plates or width of butt straps 19 1/4 in Per centages of strength of longitudinal joint rivets 87.5 Working pressure of shell by
 rules 221 lb Size of manhole in shell 16 x 12 in Size of compensating ring Mc Neil No. and Description of Furnaces in each
 boiler 3, 4 corners Material Steel Outside diameter 41 3/4 in Length of plain part top Thickness of plates 19/32 in
 Description of longitudinal joint Welded No. of strengthening rings Yes Working pressure of furnace by the rules 228 lb Combustion chamber
 plates: Material Steel Thickness: Sides 21/32 Back 11/16 Top 21/32 Bottom 7/8 Pitch of stays to ditto: Sides 8 1/2 x 7 1/4 Back 8 1/2 x 8 1/2
 Top 8 1/2 x 7 1/4 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 226 Material of stays Steel Diameter at
 smallest part 3 1/2 in Area supported by each stay 72 1/2 sq in Working pressure by rules 252 End plates in steam space: Material Steel Thickness 17/32 in
 Pitch of stays 19 1/2 x 16 How are stays secured Double nuts Working pressure by rules 220 Material of stays Steel Diameter at smallest part 6-650 in
 Area supported by each stay 312 sq in Working pressure by rules 221 Material of Front plates at bottom Steel Thickness 1 in Material of
 lower back plate Steel Thickness 15/16 Greatest pitch of stays 14 in Working pressure of plate by rules 223 Diameter of tubes 2 1/2 in
 Pitch of tubes 3 3/4 in Material of tube plates Steel Thickness: Front 1 in Back 3/4 in Mean pitch of stays 9 3/8 in Pitch across wide
 water spaces 13 in Working pressures by rules 227 lb Girders to Chamber tops: Material Steel Depth and thickness of
 order at centre 10 x 1 3/4 in Length as per rule 36 7/8 in Distance apart 7 3/4 in Number and pitch of Stays in each Three, 8 1/2 in
 Working pressure by rules 245 lb Superheater or Steam chest: how connected to boiler None Can the superheater be shut off and the boiler worked
 separately Yes Diameter 10 in Length 36 7/8 in Thickness of shell plates 1 in Material Steel Description of longitudinal joint Welded Diam. of rivet
 Pitch of rivets 9 in Working pressure of shell by rules 221 Diameter of flue 10 in Material of flue plates Steel Thickness 1 in
 stiffened with rings Yes Distance between rings 14 in Working pressure by rules 223 End plates: Thickness 1 in How stayed By stays
 Working pressure of end plates 221 lb Area of safety valves to superheater 5.93 sq in Are they fitted with easing gear Yes

The foregoing is a correct description,
Thompson Manufacturer.

Dates { During progress of } See Machinery Report Is the approved plan of boiler forwarded herewith Yes
 Survey { work in shops - - }
 while { During erection on }
 building { board vessel - - - }
 Total No. of visits 1

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This auxiliary boiler has
been constructed under special survey, the materials & workman-
ship are of good quality, it has been securely fitted on board and
the safety valves adjusted.

Survey Fee See Machinery Report When applied for, 191
 Travelling Expenses (if any) £ When received, 191

George Murdoch
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

Assigned

FRI. AUG. - 3 1917.



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