

REPORT ON BOILERS.

No. 70065
MED. 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. Croxteth Hall (Number of Visits) Gross 5550 572
 Tons Net 3741
 Master 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 Owners Edinburgh & Liverpool (Hall Limited) Port belonging to Liverpool

MULTITUBULAR BOILERS, AUXILIARY — Manufacturers of Steel J. Spencer & Sons 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 lbs Tested by hydraulic pressure to 440 lbs 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 lbs per 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" Inside Mean dia. of boilers 13-9" Length 12-3"
 Material of shell plates Steel Thickness 19/32" Range of tensile strength 29/24-33 tons 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"
 Width of butt straps 19/4" Per centages of strength of longitudinal joint rivets 87.5 Working pressure of shell by rules 221 lbs plate 85/4
 No. and Description of Furnaces in each boiler 3, 2 furnaces Material Steel Outside diameter 41 3/4" Length of plain part top Thickness of plates bottom 19/32"
 Description of longitudinal joint Welded No. of strengthening rings Yes Working pressure of furnace by the rules 228 lbs 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"
 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 226 Material of stays Steel Diameter at smallest part 3.49 Area supported by each stay 72/40 Working pressure by rules 252 End plates in steam space: Material Steel Thickness 17/32"
 How are stays secured Double nuts Working pressure by rules 220 Material of stays Steel Diameter at smallest part 6.650"
 Area supported by each stay 312 lbs Working pressure by rules 221 Material of Front plates at bottom Steel Thickness 1" Material of lower back plate Steel Thickness 15/16" Greatest pitch of stays 14" Working pressure of plate by rules 223 Diameter of tubes 2 1/2"
 Pitch of tubes 3 3/4" Material of tube plates Steel Thickness: Front 1" Back 3/4" Mean pitch of stays 9 3/8" Pitch across wide water spaces 13" Working pressures by rules 227 lbs per sq in Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 10" x 1 3/4" Length as per rule 36 7/8" Distance apart 7 3/4" Number and pitch of Stays in each Three, 8 1/2"
 Working pressure by rules 245 lbs Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately Yes
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivets
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness
 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 easing gear

The foregoing is a correct description,
J. Kemp Manufacturer.

Dates Survey See Machinery Report Is the approved plan of boiler forwarded herewith Yes
 while building During erection on board vessel Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This auxiliary boiler has been constructed under special survey, the materials & workmanship 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.

FRI. AUG. - 3 1917.

Committee's Minute
 Assigned

