

REPORT ON BOILERS.

No. 65739

THU. MAR. 19. 1914

Date of writing Report 8th March 1914 When handed in at Local Office MAR 18 1914 Port of Newcastle on Tyne
 No. in Survey held at Newcastle Date, First Survey 8th May 1913 Last Survey 9th Mar 1914
 Reg. Book. 35(Sup) on the Steel screw steamer "Imber" (Number of Visits) Gross 2154 Tons Net 1186
 Master Built at Newcastle By whom built Swan Hunter & Wigham Richardson Ltd When built 1914
 Engines made at Newcastle By whom made Swan Hunter & Wigham Richardson Ltd When made 1914
 Boilers made at do By whom made do When made do
 Registered Horse Power 340 Owners Cork S. S. Co Ltd Port belonging to Cork

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR~~ DONKEY. — Manufacturers of Steel J. Spencer & Sons

(Letter for record r) Total Heating Surface of Boilers 848 sq ft Is forced draft fitted no No. and Description of Boilers 1 S. E. Mult Cyl? Working Pressure 80 lbs Tested by hydraulic pressure to 160 lbs Date of test 11.12.13
 No. of Certificate 8599 Can each boiler be worked separately ✓ Area of fire grate in each boiler 32.6 sq ft No. and Description of safety valves to each boiler Two Spring loaded Area of each valve 5.93 sq in Pressure to which they are adjusted 80 lbs
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no
 Smallest distance between boilers or uptakes and bunkers or woodwork on deck Mean dia. of boilers 10'-4 1/8" Length 8'-6"
 Material of shell plates Steel Thickness 9/16" Range of tensile strength 29 1/4 / 33 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams S. L. lap long. seams L. L. lap Diameter of rivet holes in long. seams 7/8" Pitch of rivets 3 1/2"
 Lap of plates or width of butt straps 6 1/8" Per centages of strength of longitudinal joint rivets 44.8 plate 45 Working pressure of shell by rules 91 lbs Size of manhole in shell 16" x 12" Size of compensating ring 4 1/2" x 9 1/4" No. and Description of Furnaces in each boiler 2 Plain Material Steel Outside diameter 38 1/8" Length of plain part top 64 1/2" Thickness of plates crown 1/2" bottom 1/2"
 Description of longitudinal joint S. L. lap No. of strengthening rings Working pressure of furnace by the rules 93 lbs Combustion chamber plates: Material Steel Thickness: Sides 1/2" Back 1/32" Top 1/2" Bottom 5/8" Pitch of stays to ditto: Sides 8" x 10" Back 10" x 9 1/4"
 Top 8" x 9 1/2" If stays are fitted with nuts or riveted heads tubs Working pressure by rules 88 lbs Material of stays Iron Diameter at smallest part 1.45" Area supported by each stay 94.5 sq in Working pressure by rules 89 lbs End plates in steam space: Material Steel Thickness 2 1/32"
 Pitch of stays 18" x 19" How are stays secured at top Working pressure by rules 84 lbs Material of stays Steel Diameter at smallest part 2.57" Area supported by each stay 324 sq in Working pressure by rules 80 lbs Material of Front plates at bottom Steel Thickness 2 1/32" Material of Lower back plate Steel Thickness 2 1/32" Greatest pitch of stays 13" x 9 1/4" Working pressure of plate by rules 157 lbs Diameter of tubes 3"
 Pitch of tubes 4 1/4" x 4 1/8" Material of tube plates Steel Thickness: Front 2 1/32" Back 3/8" Mean pitch of stays 14" x 16 1/2" Pitch across wide water spaces 14" Working pressures by rules 95 lbs Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 6 1/4" x 1" Length as per rule 26 1/32" Distance apart 9 1/2" Number and pitch of Stays in each 2 - 8"
 Working pressure by rules 86 lbs Superheater or Steam chest; how connected to boiler integrated tub Can the superheater be shut off and the boiler worked separately ✓ Diameter 3'-6" Length 3'-0" Thickness of shell plates 1/2" Material Steel Description of longitudinal joint S. L. lap Diam. of rivet holes 7/8" Pitch of rivets 2 1/8" Working pressure of shell by rules 192 lbs Diameter of flue Material of flue plates Thickness
 If stiffened with rings ✓ Distance between rings Working pressure by rules End plates: Thickness 9/16" How stayed arched
 Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,
 FOR SWAN, HUNTER & WIGHAM RICHARDSON
G. J. J. J. J. Manufacturer.

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been built under special survey. the material & workmanship is good. it has been efficiently mounted and fitted on board and its safety valves adjusted under steam

Survey Fee ... When applied for, 191
 Travelling Expenses (if any) When received, 191

W. Cowie
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute FRI. MAR. 27. 1914

Assigned

