

Mdb Rpt No 9380

Rpt. 5a.

REPORT ON BOILERS

SAT. 17 JUN. 1916
No. 68117
FRI. 29 OCT. 1915

Received at London Office

Date of making Report 26 Oct 1915 When handed in at Local Office OCT 28 1915 Port of Newcastle-on-Tyne

No. in Survey held at Newcastle-on-Tyne Date, First Survey 26 Aug 1915 Last Survey 26 Oct 1915 (over)

Reg. Book. 106 on the S.S. "Miwra" (Number of Visits 126) Gross Tons 126 Net Tons 126

Master Smith's Dock Co. Ltd Built at Middlesbrough By whom built Smith's Dock Co. Ltd When built 1916

Engines made at Middlesbrough By whom made Smith's Dock Co. Ltd When made 1916

Boilers made at Newcastle-on-Tyne By whom made Palmer's S.B.L. Co. Ltd When made 1915

Registered Horse Power 10806A Owners Keble & West, Ltd Port belonging to Cardiff

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

(Letter for record 5) Total Heating Surface of Boilers 1619 sq. ft Is forced draft fitted No. No. and Description of Boilers One Cylinder Single Working Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 26/10/15

No. of Certificate 8814 Can each boiler be worked separately Yes Area of fire grate in each boiler 50 sq. ft No. and Description of safety valves to each boiler Two direct spring Area of each valve 4.9 sq. in Pressure to which they are adjusted 185 lb

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 8 1/2" Mean dia. of boilers 13' 6" Length 10' 6"

Material of shell plates Steel Thickness 1 1/8" Range of tensile strength 29 1/2 to 30 tons Are the shell plates welded or flanged No.

Descrip. of riveting: cir. seams Lap Double long. seams Double Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 7 1/2" 5 1/2"

Lap of plates or width of butt straps 17 5/8" Per centages of strength of longitudinal joint rivets 97.4 plate 84.9 Working pressure of shell by rules 185 lb Size of manhole in shell 16" x 12" Size of compensating ring 7" x 17"

No. and Description of Furnaces in each boiler 1 Plain Material Steel Outside diameter 41 1/2" Length of plain part 46" Thickness of plates 49" crown 64" bottom

Description of longitudinal joint Weld No. of strengthening rings None Working pressure of furnace by the rules 185 lb Combustion chamber plates: Material Steel Thickness: Sides 7/8" Back 7/8" Top 7/8" Bottom 1" Pitch of stays to ditto: Sides 10" x 8 1/2" Back 9 1/2" x 8 3/8"

Top 9 1/2" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 185 lb Material of stays Steel Area at smallest part 2.03" Area supported by each stay 84 1/2" Working pressure by rules 208 lb End plates in steam space: Material Steel Thickness 1 1/2"

Pitch of stays 18 1/2" x 18" How are stays secured By nuts & washers Working pressure by rules 189 lb Material of stays Steel Area at smallest part 6.1"

Area supported by each stay 320" Working pressure by rules 190 lb Material of Front plates at bottom Steel Thickness 1 1/2" Material of Lower back plate Steel Thickness 1 5/8" Greatest pitch of stays 14 1/2" Working pressure of plate by rules 216 lb Diameter of tubes 5 1/2"

Pitch of tubes 4 3/4" x 4 3/4" Material of tube plates Steel Thickness: Front 1 3/8" Back 3/4" Mean pitch of stays 9 1/2" Pitch across wide water spaces 14 1/2" Working pressures by rules 181 lb 222 lb Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 8" x 1 3/4" Length as per rule 32" Distance apart 9" Number and pitch of Stays in each 2: 9 1/2"

Working pressure by rules 184 lb Superheater or Steam chest: Not 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 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 easing gear Yes

For Palmer's Shipbuilding & Iron Co., Ltd.
The foregoing is a correct description
J. Cameron
Manager, Boiler Shop Dept.
Manufacturer.

Dates of Survey 1915 During progress of work in shops Aug. 26, Sep. 22, 28, Oct. 4, 8, 13, 18, 26 Is the approved plan of boiler forwarded herewith See Report on Boiler No 805A

while building During erection on board vessel Total No. of visits 8 +

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This main boiler was built under special survey and the materials and workmanship are good. On completion it was tested by hydraulic pressure as required by the Rules and found tight and sound. This boiler has now been fitted and secured in the vessel.

Survey Fee £ 5 : 8 : : When applied for, OCT 28 1915

Travelling Expenses (if any) £ : : : When received, 29-11-1915

per London
advice. Wm. Austin
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE. 20. JUN. 1916

Assigned

Lloyd's Register Foundation
W670-0023