

# REPORT ON BOILERS.

No. 9853

Received at London Office MON SEP 10 1917.

5a. Writing Report 6<sup>th</sup> by 7  
 When handed in at Local Office 101 Port of Belfast  
 Description of o. in Survey held at Belfast Date, First Survey 4<sup>th</sup> March 1915 Last Survey 29<sup>th</sup> by 1917  
 Book. S.S. Mahia (Number of Visits 162) Gross 10835  
 on the Built at Belfast By whom built Workman Clark & Co. Ltd When built 1917  
 Rivets Plates made at Belfast By whom made When made  
 By whom made When made  
 Registered Horse Power Owner Shaw Savill & Albion Coy. Ltd Port belonging to Southampton

**WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.**—Manufacturers of Steel *Bearmore & Co. Ltd*  
 No. and Description of Boilers *2 Single End Cyl.*  
 Total Heating Surface of Boilers *5242 sq ft* Is forced draft fitted *Yes*  
 Working Pressure *220 lbs* Tested by hydraulic pressure to *440 lbs* Date of test *31-1-17*  
 Area of fire grate in each boiler *59 1/2 sq ft*  
 Area of each valve *8 1/2 sq ft* Pressure to which they are adjusted *225 lbs*  
 Material of shell plates *Steel* Thickness *1 3/4* Range of tensile strength *28-32 tons* Are the shell plates welded or flanged *No*  
 Diameter of rivet holes in long. seams *1 1/2* Pitch of rivets *10 1/2*  
 Working pressure of shell by rivets *87.4* plate *85.5*  
 Size of manhole in shell *16 x 12* Size of compensating ring *10 1/2*  
 No. and Description of Furnaces in each boiler *3 - Morrison*  
 Working pressure of furnace by the rules *232 lbs*  
 Material of stays *Steel* Thickness: Sides *4/8* Back *4/8* Top *4/8* Bottom *7/8*  
 Working pressure by rules *236 lbs*  
 Material of stays *Steel*  
 Working pressure by rules *271 lbs*  
 Working pressure by rules *220 lbs*  
 Working pressure by rules *267 lbs*  
 Working pressure of plate by rule *220 lbs*  
 Working pressure by rules *224 lbs*  
 Working pressure by rules *231 lbs*  
 Superheater or Steam chest; how connected to boiler  
 Can the superheater be shut off and the boiler worked  
 Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet  
 Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness  
 Distance between rings Working pressure by rules End plates: Thickness How stayed  
 Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,  
 FOR WORKMAN, CLARK & CO., LIMITED. Manufacturer.  
 M. H. Bell

Is the approved plan of boiler forwarded herewith *Yes*  
 Total No. of visits

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

Survey Fee ... £ : : When applied for, 191  
 Travelling Expenses (if any) £ : : When received, 191  
 Committee's Minute  
 TUE. 18. SEP. 1917

R. J. Beumer  
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.



Belfast

T.S.S. Mahia

List of Pumps

- 1 Ballast 10' x 12' x 12'
- F. Water 5' x 5' x 8'
- 2 Weir Feed 13 1/2' x 10' x 24'
- 2 General Service 9 1/2' x 7' x 21'
- 1 Reprim. Circulating 10' x 12' x 12'
- 2 Main Circulating 45" Impeller, 14" Pipe

List of Spare Gear

- 1 Propeller Shaft
- 2 " Blades & 1 set studs
- 1 H.P. piston complete with rings etc
- Sets packing rings for one M.P. M.P.2 + L.P. pistons
- 1 Piston rod
- 1 Pair crank pin bushes
- 1 - Crosshead
- 2 Slide Valve spindles
- 2 Eccentric rods
- 2 - Pulleys
- 100 Condenser tubes
- Sets U.S. packing all piston & slide rods
- 1 Air pump bucket rod
- 1 - head valve
- 1 Feed - plunger
- 1 Bilge -
- 1 Impeller Circ. pump.
- 1 Spindle Weir Feed pump
- Sets spare gear for auxiliary pumps etc
- and all gear to Lloyd's Rules extra.

R. M. Bennett