

REPORT ON BOILERS.

No. 7853

Received at London Office MON SEP 10 1917.

Writing Report 6th by 101 Port of Belfast
Survey held at Belfast Date, First Survey 4th March 1915 Last Survey 29th by 1917
Book. S.S. Mahia (Number of Visits 162) Gross 10815
on the Built at Belfast By whom built Workman Clark & Co. Ltd When built 1917
Rivets made at Belfast By whom made When made
Plates made at By whom made When made
Horse Power (Owner) Shaw Savill & Albion Co. Ltd Port belonging to Southampton

WATER TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel
Total Heating Surface of Boilers 5172 5242 sq ft Is forced draft fitted Yes No. and Description of
Working Pressure 220 lbs Tested by hydraulic pressure to 440 lbs Date of test 31-1-17
Area of fire grate in each boiler 598 sq ft
Area of each valve 8'29 sq ft Pressure to which they are adjusted 225 lbs
In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler
Mean dia. of boilers 4'-7 1/2" Length 12'-6"
Thickness 1 3/4" Range of tensile strength 28-32 tons Are the shell plates welded or flanged No
Pitch of rivets 10 1/2"
Working pressure of shell by
Size of manhole in shell 16" x 12" Size of compensating ring 10" dia
No. and Description of Furnaces in each
Outside diameter 47 1/2" Length of plain part 2'-8"
Thickness of plates crown 1 1/2" bottom 1 1/4"
Working pressure of furnace by the rules 232 lbs
Pitch of stays to ditto: Sides 8'-0 1/2" x 8" Back 7'-4" x 7'-4"
Working pressure by rules 236 lbs
Material of stays Steel
Thickness 1 1/2"
Working pressure by rules 220 lbs
Material of Front plates at bottom Steel Thickness 1 1/2"
Material of back plates Steel Thickness 3/4"
Greatest pitch of stays 15' x 7 1/4"
Working pressure of plate by rule 220 lbs
Diameter of tubes 2 1/2"
Material of tube plates Steel Thickness: Front 1 1/2" Back 1 1/4"
Mean pitch of stays 11' x 7 1/4"
Pitch across wide spaces 13 1/2"
Working pressures by rules 224 lbs
Girders to Chamber tops: Material Steel Depth and thickness of
Distance apart 8'5" x 8"
Number and pitch of Stays in each 3'-8"
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.
M. H. Bell Manufacturer.

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

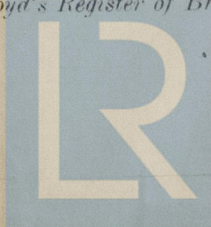
Survey Fee ... £ : : When applied for, 191
Travelling Expenses (if any) £ : : When received, 191

Committee's Minute

igned

TUE. 18 SEP. 1917

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



© 2021

Lloyd's Register
Foundation

Belfast

Continuation of Report No. 7953

dated 6th Aug

on the

T.S.S. Mahia

List of Pumps

- | | | |
|---|---------------------|------------------------|
| 1 | Ballast | 10" x 12" x 12" |
| | F. Water | 5" x 5" x 8" |
| 2 | Mevis Feed | 13½" x 10" x 24" |
| 2 | General Service | 9½" x 7" x 21" |
| 1 | Refrig. 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 Mevis Feed pump
- Sets spare gear for auxiliary pumps etc
- and all gear to Lloyd's Rules extra.

R. M. Bennett