

REPORT ON BOILERS.

No. 17957

Date of writing Report 2nd Feb 1922 When handed in at Local Office 2/2/1922 Port of Greenock
 Received at London Office WED. FEB 8 1922
 No. in Survey held at Greenock and Pt. Glasgow Date, First Survey 19th January, 1920 Last Survey 1st Feb 1922
 Reg. Book. on the Screw Steamer "KOHINUR" (Number of Visits 145)
 Master Built at Pt. Glasgow By whom built Lithyons Ltd. Tons 516⁵ Net 3240
 Engines made at Greenock By whom made Rankin and Blackmore Ltd. When made 1922
 Boilers made at Greenock By whom made Rankin and Blackmore Ltd. When made 1922
 Registered Horse Power Owners The Asiatic Steam Nav. Co. Ltd. Port belonging to London.

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY.~~ —Manufacturers of Steel J. Dunlop & Co. Ltd.

(Letter for record S.) Total Heating Surface of Boilers 1006 # Is forced draft fitted No
 Boilers One. Cyl. Single End. Working Pressure 100 lb Tested by hydraulic pressure to 200 lb Date of test 22.3.21.
 No. of Certificate 1552 Can each boiler be worked separately ✓ Area of fire grate in each boiler 32 # No. and Description of safety valves to each boiler Two Spring Area of each valve 7.06 # Pressure to which they are adjusted 105 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 on uptakes and bunkers on woodwork 16 # Mean dia. of boilers 11'-0" Length 10'-0"
 Material of shell plates S. Thickness 19/32 Range of tensile strength 28/32 T. Are the shell plates welded or flanged No.
 Descrip. of riveting: Ex. A. cir. seams L.D.R. long. seams D.B.S./7R. Diameter of rivet holes in long. seams 13/16 Pitch of rivets 4 1/16
 Lap of plates 8 3/4 # width of butt straps 8 3/4 # Per centages of strength of longitudinal joint 83.5 Working pressure of shell by rules 103 lb Size of manhole in shell 16" x 12" Size of compensating ring 29 1/2" 25" 2 1/2" No. and Description of Furnaces in each boiler 2. Plain Material S. Outside diameter 37 7/8" Length of plain part 74 1/8" Thickness of plates 17/32 crown 17/32 bottom 17/32
 Description of longitudinal joint D.B.S. No. of strengthening rings None Working pressure of furnace by the rules 108 lb Combustion chamber plates: Material S. Thickness: Sides 17/32 Back 9/16 Top 19/32 Bottom 3/4 Pitch of stays to ditto: Sides 10 1/8" 8 1/2" Back 10" x 10"
 Top 2 3/4" 8 1/2" If stays are fitted with nuts or riveted heads Nut Working pressure by rules 100 lb Material of stays S. Area at smallest part 1.47 # Area supported by each stay 108 Working pressure by rules 109 lb End plates in steam space: Material S. Thickness 15/16
 Pitch of stays 21" x 19" How are stays secured D.N. Working pressure by rules 100 lb Material of stays S. Area at smallest part 4.3 #
 Area supported by each stay 399 Working pressure by rules 112 lb Material of Front plates at bottom S. Thickness 5/8 Material of Lower back plate S. Thickness 9/16 Greatest pitch of stays 10" x 10" Working pressure of plate by rules 109 lb Diameter of tubes 3 1/2"
 Pitch of tubes 4 5/8" Material of tube plates S. Thickness: Front 5/8 Back 23/32 Mean pitch of stays 9 1/4" Pitch across wide water spaces 13 1/2" Working pressures by rules 102 lb Girders to Chamber tops: Material S. Depth and thickness of girder at centre 7 1/4" x 1 1/2" Length as per rule 28.7 Distance apart 12 3/4" Number and pitch of Stays in each 2 @ 8 1/2"
 Working pressure by rules 114 lb Steam dome: description of joint to shell NONE % of strength of joint -
 Diameter - Thickness of shell plates - Material - Description of longitudinal joint - Diam. of rivet holes -
 Pitch of rivets - Working pressure of shell by rules - Crown plates - Thickness - How stayed -

UPERHEATER. Type NONE Date of Approval of Plan - Tested by Hydraulic Pressure to -
 Date of Test - Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler -
 Diameter of Safety Valve - Pressure to which each is adjusted - Is Easing Gear fitted -

The foregoing is a correct description,
RANKIN & BLACKMORE, LTD.,
W. Rankin Director, Manufacturer.

Dates of Survey During progress of work in shops - -
while building During erection on board vessel - - -
 Is the approved plan of boiler forwarded herewith Yes.
 Total No. of visits 145.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
The above Boiler has been constructed under Special Survey and has been fitted on board the Vessel in accordance with the Society's Rules.

Survey Fee See Machy Rpt : } When applied for, 19.....
 Travelling Expenses (if any) £ - : } When received, 19.....

Committee's Minute See attached machinery report.
 Assigned See attached machinery report.
 W. Lane
 Engineer Surveyor to Lloyd's Register of Shipping.
 GLASGOW 7 FEB 1922
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