

REPORT ON BOILERS.

No. 38837.

Received at London Office WED. 18 JUN. 1919

Date of writing Report 1919 When handed in at Local Office 16.6.1919. Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 3-3-16. Last Survey 10-6-1919
 Reg. Book. T.S. MASULA (Number of Visits 84) Gross 7261 Tons Net 4454
 on the
 Master A.P. Morton Built at Glasgow By whom built Barclay Curle & Co. (No 516) When built 1919
 Engines made at Glasgow By whom made doo No 516 When made 1919
 Boilers made at Leo By whom made doo No 516 When made 1919
 Registered Horse Power Owners British India Steam Nav Co Port belonging to Glasgow

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY OR DONKEY~~ ^{auxiliary} Manufacturers of Steel Steel Co. of Scotland

Letter for record S) Total Heating Surface of Boilers 1528 Is forced draft fitted Yes No. and Description of Boilers 1 Single ended Working Pressure 215 lb Tested by hydraulic pressure to 430 lb Date of test 18.4.19
 No. of Certificate 14696 Can each boiler be worked separately - Area of fire grate in each boiler 37.58 ft² No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 5.94 ft² Pressure to which they are adjusted 220
 Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler -
 Smallest distance between boilers or uptakes and bunkers or woodwork 18" Mean dia. of boilers 12.0" Length 11.0"
 Material of shell plates Steel Thickness 1 5/16" Range of tensile strength 28 to 32 tons Are the shell plates welded or flanged No
 Descrip. of riveting: cir. seams Lap long. seams TRDBS Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 8 3/4"
 Lap of plates or width of butt straps 19 1/4" Per centages of strength of longitudinal joint rivets 87.4 Working pressure of shell by plate 84.8
 Rules 246 Size of manhole in shell 16x12 Size of compensating ring 10 1/2 x 1 5/16" No. and Description of Furnaces in each boiler 2 Conjugate Material Steel Outside diameter 3-9 1/4 Length of plain part top - Thickness of plates crown 21 bottom 32
 Description of longitudinal joint Weld No. of strengthening rings - Working pressure of furnace by the rules 236 Combustion chamber plates: Material Steel Thickness: Sides 21 Back 21 Top 21 Bottom 1 Pitch of stays to ditto: Sides 7 3/4 x 8 1/4 Back 7 3/4 x 8 1/4
 Top 7 3/4 x 8 1/4 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 232 Material of stays Steel Diameter at smallest part 7 3/8 Area supported by each stay 64 Working pressure by rules 216 End plates in steam space: Material Steel Thickness 1 7/16
 Pitch of stays 16 x 16 How are stays secured Nuts Working pressure by rules 239 Material of stays Steel Diameter at smallest part 6.67
 Area supported by each stay 764 Working pressure by rules 262 Material of Front plates at bottom Steel Thickness 31 Material of Lower back plate Steel Thickness 29 Greatest pitch of stays 14 1/4 Working pressure of plate by rules 216 Diameter of tubes 2 1/2
 Pitch of tubes 3 3/4 x 3 5/8 Material of tube plates Steel Thickness: Front 31 Back 13 Mean pitch of stays 7 3/8 Pitch across wide water spaces 13 1/2 Working pressures by rules 224 Girders to Chamber tops: Material Steel Depth and thickness of girder at centre 10 x (25/32 x 12) Length as per rule 2.6 1/2 Distance apart 8 1/4 Number and pitch of Stays in each (3) 7 3/4
 Working pressure by rules 290 Superheater or Steam chest: how connected to boiler None Can the superheater be shut off and the boiler worked separately 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

The foregoing is a correct description,
 For Barclay, Curle & Co., Ltd.
 A. Benjamin Curle Manufacturer.

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 This boiler has been built under special supervision of Survey, the materials and workmanship are good, it has been well fitted on board

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

Jas Easthope M.A. Inst. Nav.
 Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute GLASGOW 17 JUN. 1919

Assigned See accompanying machinery report.



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