

# REPORT ON BOILERS.

No. 42369

Received at London Office WED. DEC. 13 1922

Date of writing Report 11. 12. 1922 When handed in at Local Office 11. 12. 1922 Port of Glasgow

No. in Survey held at Reg. Book. on the T.S.S. "Mauritai"

Date, First Survey 11. 10. 1922 Last Survey 7. 12. 1922 (Number of Visits 12)

Builder Built at Montreal By whom built Roanhe Construction Co. Ld. When built 1923

Engines made at Glasgow By whom made M.K.U. Bonnet & Co. 1081/2 When made 1922

Boilers made at Glasgow By whom made Ross & Duncan Ld. 1672-3 When made 1922

Registered Horse Power Owners Lathbrough Borough Council. Port belonging to Wellington

## MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Colvill & Sons Ld.

Letter for record S Total Heating Surface of Boilers 2200 sq ft Is forced draft fitted Yes No. and Description of Boilers 2 Single Ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 4. 12. 22

To. of Certificate 16176 Can each boiler be worked separately Area of fire grate in each boiler 30 sq ft No. and Description of Safety valves to each boiler 2 Spring loaded Area of each valve 4.43 sq in Pressure to which they are adjusted 185 lbs

Are they fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 23" Int. Mean dia. of boilers 10'-1" Length 11'-0"

Material of shell plates S Thickness 7/8" Range of tensile strength 28-32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams DR long. seams TR & DBS Diameter of rivet holes in long. seams 1" Pitch of rivets 6 3/8"

Width of butt straps 15 3/4" Per centages of strength of longitudinal joint rivets 86.7% plate 84.3% Working pressure of shell by rules 188 Size of manhole in shell 16" x 20" Size of compensating ring 6 1/4" x 1" Ring No. and Description of Furnaces in each boiler 2 Corrugated Material S Outside diameter 39 1/4" Length of plain part top bottom Thickness of plates crown bottom 15/32"

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 181 Combustion chamber plates: Material S Thickness: Sides 2 1/32 Back 2 1/32 Top 2 1/32 Bottom 2 1/32 Pitch of stays to ditto: Sides 9 1/4" x 8 1/2" Back 8 1/4" x 9 1/2"

Top 8 1/4" x 9 1/4" If stays are fitted with nuts or riveted heads Yes Working pressure by rules 189 Material of stays S Area at smallest part 13236 sq in Area supported by each stay 78 sq in Working pressure by rules 196 End plates in steam space: Material S Thickness 3 1/32"

Pitch of stays 14" How are stays secured DN-Workum Working pressure by rules 183 Material of stays S Area at smallest part 6'10"

Area supported by each stay 340 sq in Working pressure by rules 182 Material of Front plates at bottom S Thickness 3 1/32" Material of cover back plate S Thickness 3 1/32" Greatest pitch of stays 18 Working pressure of plate by rules 185 Diameter of tubes 2 1/2"

Pitch of tubes 3 5/8" Material of tube plates S Thickness: Front 3 1/32 Back 2 3/32 Mean pitch of stays 9'06" Pitch across wide water spaces 13 1/2" Working pressures by rules 200 Girders to Chamber tops: Material S Depth and thickness of girder at centre 8 1/4" x 5 1/8" (2) Length as per rule 2.65/8 Distance apart 8 1/4" Number and pitch of Stays in each 2 at 9 1/4"

Working pressure by rules 193 Steam dome: description of joint to shell Diam. of rivet holes

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

## SUPERHEATER. Type 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

Survey August Term Annual attached

The foregoing is a correct description, Ross & Duncan Manufacturer.

Dates of Survey During progress of work in shops 1922 Oct 11, 20, 23, 25 Nov 6, 10, 16, 21, 29 Dec 1, 5, 7 Is the approved plan of boiler forwarded herewith Yes

while building During erection on board vessel Total No. of visits 12

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These Boilers have been built under special survey in accordance with the approved plan & the workmanship & material are of good quality. These boilers are being shipped to Montreal at which port they will be fitted on board. These boilers have now been fitted on board in an efficient manner.

Survey Fee ... £ 18 : 6 : When applied for, 11-12-1922

Travelling Expenses (if any) £ : : When received, 13. 12. 22

Committee's Minute Glasgow 12 DEC 1922

Assigned

London - Muirhead Engineer Surveyor to Lloyd's Register of Shipping.

TRANSMIT TO LONDON

FRI. MAR. 2 1923

Lloyd's Register Foundation