

REPORT ON BOILERS.

No. 40685

THU JAN 18 1921

Received at London Office

Date of writing Report 5.1.1921 When handed in at Local Office 5.1.1921 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 17.9.1918 Last Survey 30.12.1920

Reg. Book. on the Single ended Boiler SS MATHURA (Number of Visits 65.) Gross Tons Net

Master Built at Glasgow By whom built C. Connell & Co. When built 1920

Engines made at Manchester By whom made Inchofolten Vickers & Co. When made 1920

Boilers made at Glasgow By whom made W. Rowan & Co. Ltd (No 658) When made 1920

Registered Horse Power Owners J. J. Brocklebank & Co. Port belonging to Liverpool

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel W. Rowan & Co. Ltd

(Letter for record R) Total Heating Surface of Boilers 6680 ft² Is forced draft fitted No No. and Description of

Boilers 2 Single ended Working Pressure 200 lb Tested by hydraulic pressure to 350 lb Date of test 22.9.20

No. of Certificate 15495 Can each boiler be worked separately Yes Area of fire grate in each boiler 70 ft² No. and Description of

safety valves to each boiler 2 Spring loaded Area of each valve 7.07 Pressure to which they are adjusted 205 lb

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" Int Mean dia. of boilers 17-6" Length 12-0"

Material of shell plates Steel Thickness 17-1 3/4" Range of tensile strength 30 to 34 tons Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams do Lap long. seams T R D B S Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 10 1/4"

Lap of plates or width of butt straps 22 1/4" Per centages of strength of longitudinal joint rivets 88.2 Working pressure of shell by

rules 200 Size of manhole in shell 19 1/2" x 15 1/2" Size of compensating ring 3-0 1/2" x 2-8 1/2" x 1 3/4" No. and Description of Furnaces in each

boiler 4 Cornish Material Steel Outside diameter 3-10 1/4" Length of plain part top Thickness of plates crown 5" bottom 8"

Description of longitudinal joint welded No. of strengthening rings - Working pressure of furnace by the rules 217 Combustion chamber

plates: Material Steel Thickness: Sides 3/32" Back 3/32" Top 3/32" Bottom 7/8" Pitch of stays to ditto: Sides 9 3/4" x 9 3/4" Back 9 3/4" x 7 1/2"

Top 9 3/4" x 9 3/4" If stays are fitted with nuts or riveted heads No Working pressure by rules 200 Material of stays Iron Area at

smallest part 2.07 ft² Area supported by each stay 89 ft² Working pressure by rules 202 End plates in steam space: Material Steel Thickness 1 3/32"

Pitch of stays 18 1/2" x 18 How are stays secured do & Working pressure by rules 200 Material of stays Steel Area at smallest part 7.06 ft²

Area supported by each stay 341 ft² Working pressure by rules 210 Material of Front plates at bottom Steel Thickness 7/8" Material of

Lower back plate Steel Thickness 3/32" Greatest pitch of stays 13 3/8" Working pressure of plate by rules 201 Diameter of tubes 3"

Pitch of tubes 4 1/4" x 4 1/4" Material of tube plates Steel Thickness: Front 1" Back 1 1/8" Mean pitch of stays 10 1/2" Pitch across wide

water spaces 13 1/8" Working pressures by rules 210 Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 11 1/2" x 7 1/2" (2) Length as per rule 40 17/32" Distance apart 9 3/4" Number and pitch of Stays in each (3) 9 3/8"

Working pressure by rules 210 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,

W. Rowan & Co. Ltd Manufacturer.

Is the approved plan of boiler forwarded herewith

Total No. of visits

Dates of Survey During progress of work in shops - - - See Machy Rpt attached -

while building During erection on board vessel - - -

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The boilers have been built under Special Survey. Materials and workmanship are good. The boilers have been well fitted to the vessel.

Survey Fee ... £ ... When applied for, 19

Travelling Expenses (if any) £ ... When received, 19

Committee's Minute

Assigned See attached machinery report.

ac B. Asthore, Esq. 2020
Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation

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