

REPORT ON BOILERS.

No. 41720

Received at London Office

WFO. 1 MAR. 1922

Date of writing Report 27. 2. 22 When handed in at Local Office 27. 2. 22 Port of Glasgow
 No. in Survey held at Dalmuir Date, First Survey 16. 9. 1909 Last Survey 13. 2. 1922
 Reg. Book. T.S.S. Conte Rosso (Number of Visits 108) Gross 18017 Tons Net 10006
 Master Built at Dalmuir By whom built Tom Beardmore & Co. (Glasgow) When built 1922
 Engines made at Dalmuir By whom made Tom Beardmore & Co. (Glasgow) When made 1922
 Boilers made at Dalmuir By whom made Tom Beardmore & Co. (Glasgow) When made 1922
 Registered Horse Power Owners Lloyd Sabauda Port belonging to Genoa

MULTITUBULAR BOILERS—MAIN, ~~FOR THE MAIN OR DONKEY~~—Manufacturers of Steel Tom Beardmore & Co.

(Letter for record (S)) Total Heating Surface of Boilers 232.6022 \checkmark Is forced draft fitted yes No. and Description of Boilers 2 Single endish Working Pressure 200 \checkmark Tested by hydraulic pressure to 320 Date of test 11/3/21, 23/3/21
 No. of Certificate 15739, 15769 Can each boiler be worked separately yes Area of fire grate in each boiler 72 \checkmark No. and Description of safety valves to each boiler 2 Spring loaded Area of each valve 9.62 \checkmark Pressure to which they are adjusted 205
 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 will clear Mean dia. of boilers 16' 3" Length 11' 3" \checkmark
 Material of shell plates steel Thickness 1 1/32 Range of tensile strength 305-34 Are the shell plates welded or flanged no \checkmark
 Descrip. of riveting: cir. seams Lap double long. seams butt tube Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 10" \checkmark
 Lap of plates or width of butt straps 21 3/4" Per centages of strength of longitudinal joint rivets 89.4 Working pressure of shell by rules 213 plate 350
 Size of manhole in shell 16" x 12" Size of compensating ring 37" x 33" No. and Description of Furnaces in each boiler 4 Monsons Material steel Outside diameter 43 1/2" Length of plain part top Thickness of plates bottom 2 9/16" \checkmark
 Description of longitudinal joint weld No. of strengthening rings — Working pressure of furnace by the rules 202 Combustion chamber plates: Material steel Thickness: Sides 4 1/2" Back 4 1/2" Top 4 1/2" Bottom 3 1/2" Pitch of stays to ditto: Sides 9 1/4" x 15 1/4" Back 7 3/8" x 10" Top 9" x 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 202 Material of stays steel Area at smallest part 2.03 Area supported by each stay 81 \checkmark Working pressure by rules 226 End plates in steam space: Material steel Thickness 1 3/16 \checkmark
 Pitch of stays 8 1/2" x 17" How are stays secured 2 nuts Working pressure by rules 205 Material of stays steel Area at smallest part 7.06
 Area supported by each stay 306 Working pressure by rules 202 Material of Front plates at bottom steel Thickness 1 1/16 Material of Lower back plate steel Thickness 1 5/16 Greatest pitch of stays 15 1/2" Working pressure of plate by rules 207 Diameter of tubes 3 \checkmark
 Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates steel Thickness: Front 1 1/16 Back 1 1/8 Mean pitch of stays 10 1/2" Pitch across wide water spaces 14" Working pressures by rules 200 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 8 3/8" x 9 1/4" double Length as per rule 29 7/8" Distance apart 9" Number and pitch of Stays in each (2) 9" \checkmark
 Working pressure by rules 200 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 — \checkmark
 Pitch of rivets — Working pressure of shell by rules — Crown plates — Thickness — How stayed — \checkmark

UPERHEATER. Type Robinson Date of Approval of Plan 1/3/20 Tested by Hydraulic Pressure to —
 Date of Test See Certificate No. 2/1334 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler yes
 Diameter of Safety Valve 7 1/8" Pressure to which each is adjusted 210 lb Is Easing Gear fitted yes

VERTICAL DONKEY BOILER—

No. 71011 Description

Manufacturers of steel

Made at — By whom made — When made — Where fixed — Working pressure —
 tested by hydraulic pressure to — Date of test — No. of Certificate — Fire grate area — Description of safety valves —
 No. of safety valves — Area of each — Pressure to which they are adjusted — If fitted with easing gear — If steam from main boilers can enter the donkey boiler — Dia. of donkey boiler — Length — Material of shell plates — Thickness — Range of tensile strength — Descrip. of riveting long. seams — Dia. of rivet holes — Whether punched or drilled — Pitch of rivets —
 Lap of plating — Per centage of strength of joint — Rivets — Working pressure of shell by rules — Thickness of shell crown plates —
 Radius of do. — No. of stays to do. — Dia. of stays — Diameter of furnace Top — Bottom — Length of furnace —
 Thickness of furnace plates — Description of joint — Working pressure of furnace by rules — Thickness of furnace crown plates — Radius of do. — Stayed by — Diameter of uptake — Thickness of uptake plates —
 Thickness of water tubes —

The foregoing is a correct description,
 FOR WILLIAM BEARDMORE & CO., LIMITED Manufacturer.

Dates of Survey
 During progress of work in shops —
 During erection on board vessel —
 Total No. of visits 108

See Machinery report attached
 108.

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "



GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

These boilers have been built under special survey the materials and workmanship are of good description, they have been well fitted on board the boat and tried under steam.

LR-FAF-T188-62

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute)

The amount of Entry Fee .. £	:	:	When applied for.
Special £	:	:19.....
Donkey Boiler Fee £	:	:	When received.
Travelling Expenses (if any) £	:	:19.....

Committee's Minute

GLASGOW 28 FEB 1922

Assigned

See attached report

A. McKeand
Engineer Surveyor to Lloyd's Register of Shipping

