

REPORT ON BOILERS.

No. 42121
WED. AUG. 30 1922

Received at London Office

Date of writing Report 26.8.1922 When handed in at Local Office 28.8.1922 Port of Glasgow
 No. in Survey held at Dalmuir Date, First Survey 8.2.1921 Last Survey 15.8.1922
 Reg. Book. S.S. "British Commerce" (Number of Visits 35) Gross Tons 4205
 on the S.S. "British Commerce" Net Tons 2310
 Master Wm Beardmore & Co Ltd Built at Dalmuir By whom built Wm Beardmore & Co Ltd When built 1922
 Engines made at Dalmuir By whom made Wm Beardmore & Co Ltd When made 1922
 Boilers made at Dalmuir By whom made Wm Beardmore & Co Ltd When made 1922
 Registered Horse Power British Tankers Ltd Port belonging to London

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

(Letter for record 7) Total Heating Surface of Boilers 10139 Is forced draft fitted yes No. and Description of Boilers Single ended Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 24/12/21
 No. of Certificate 15984 Can each boiler be worked separately yes Area of fire grate in each boiler oil fired No. and Description of safety valves to each boiler 1 pair direct spring Area of each valve 3.98 Pressure to which they are adjusted 185
 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 or uptakes and bunkers or woodwork well clear Mean dia. of boilers 10' 6" Length 10' 6"
 Material of shell plates steel Thickness 3/32 Range of tensile strength 28532 Are the shell plates welded or flanged no
 Descrip. of riveting: cir. seams lap double long. seams butt treble Diameter of rivet holes in long. seams 1" Pitch of rivets 7"
 Lap of plates or width of butt straps 15" Per centages of strength of longitudinal joint 90.5 Working pressure of shell by rules 184 Size of manhole in shell 16" x 12" Size of compensating ring 2' 6 1/2" x 2' 2 1/2" No. and Description of Furnaces in each boiler 2 Doughton Material Steel Outside diameter 36 1/16" Length of plain part top 15" bottom 32" Thickness of plates 15" 32"
 Description of longitudinal joint welded No. of strengthening rings 4 Working pressure of furnace by the rules 183 Combustion chamber plates: Material steel Thickness: Sides 1/16" Back 1/16" Top 1/16" Bottom 1/16" Pitch of stays to ditto: Sides 9" x 9 1/4" Back 9 1/2" x 8 1/4" Top 9" x 9 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 190 Material of stays iron 2 1/2 tons Area at smallest part 1.73 Area supported by each stay 83 Working pressure by rules 190 End plates in steam space: Material steel Thickness 1" Pitch of stays 15" x 16" How are stays secured 2 nuts Working pressure by rules 187 Material of stays steel Area at smallest part 4.43 Area supported by each stay 240 Working pressure by rules 190 Material of Front plates at bottom steel Thickness 15" Material of Lower back plate steel Thickness 7/8" Greatest pitch of stays 14 1/4" Working pressure of plate by rules 200 Diameter of tubes 2 1/2" Pitch of tubes 3 3/4" x 3 3/8" Material of tube plates steel Thickness: Front 15/16" Back 5" Mean pitch of stays 11 1/16" Pitch across wide water spaces 13 1/2" Working pressures by rules 182 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 7 1/2" x 3 1/4" double Length as per rule 27 3/16" Distance apart 9 1/2" Number and pitch of Stays in each (2) 9" Working pressure by rules 182 Steam dome: description of joint to shell none % of strength of joint none
 Diameter none Thickness of shell plates none Material none Description of longitudinal joint none Diam. of rivet holes none
 Pitch of rivets none Working pressure of shell by rules none Crown plates none Thickness none How stayed none

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

VERTICAL DONKEY BOILER—No. none Description none Manufacturers of steel none
 Made at none By whom made none When made none Where fixed none Working pressure none
 tested by hydraulic pressure to none Date of test none No. of Certificate none Fire grate area none Description of safety valves none
 No. of safety valves none Area of each none Pressure to which they are adjusted none If fitted with easing gear none If steam from main boilers can enter the donkey boiler none Dia. of donkey boiler none Length none Material of shell plates none Thickness none Range of tensile strength none Descrip. of riveting long. seams none Dia. of rivet holes none Whether punched or drilled none Pitch of rivets none
 Lap of plating none Per centage of strength of joint none Rivets none Working pressure of shell by rules none Thickness of shell crown plates none
 Radius of do. none No. of Stays to do. none Dia. of stays none Diameter of furnace Top none Bottom none Length of furnace none
 Thickness of furnace plates none Description of joint none Working pressure of furnace by rules none Thickness of furnace crown plates none Radius of do. none Stayed by none Diameter of uptake none Thickness of uptake plates none
 Thickness of water tubes none

The foregoing is a correct description.

WILLIAM BEARDMORE & CO., Ltd. Manufacturer.

Dates of Survey while building
 During progress of work in shops --
 During erection on board vessel --
 Total No. of visits 35

See attached Machinery Report

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Lloyd's Register
 Foundation
 W 568-0142

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

[Faint, mostly illegible handwritten notes in pencil, possibly describing ship specifications or survey details.]

This boiler has been built under special survey, the materials and workmanship are of good description, it has been well fitted on board & tried under steam

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

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

Committee's Minute

GLASGOW 25 AUG 1922

Assigned *See attached machinery report.*



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