

REPORT ON BOILERS.

J.H.L. 13129
 No. 4823

Port of MIDDLESBROUGH-ON-TEES.

Received at London Office

FRI. NOV 23 1906

No. in Reg. Book.

Survey held at

Darlington

Date, first Survey

August 15

Last Survey

21st Nov 1906

(Number of Visits)

Reg. Book.

53 supp on the Donkey Boiler (No 102) S.S. "Ben Lomond"

Tons } Gross 2813.56
 Net 1795.06

Master Owen Russell Built at W. H. H. & Co. Ltd By whom built W. H. H. & Co. LtdWhen built 1906Engines made at W. H. H. & Co. LtdBy whom made General Marine & Workswhen made 1906Boilers made at DarlingtonBy whom made Blake Boiler, Wagon & Eng. Co. Ltdwhen made 1906

Registered Horse Power

Owners Marjory Shipping Co. LtdPort belonging to NewcastleMULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Sons Ltd(Letter for record (S)) Total Heating Surface of Boilers 607 sq ft Is forced draft fitted ✓ No. and Description ofBoilers One Cyl. Multi single ended Working Pressure 80 lb Tested by hydraulic pressure to 160 lb Date of test 30-10-06No. of Certificate 3795 Can each boiler be worked separately ✓ Area of fire grate in each boiler 22.6 sq ft No. and Description ofsafety valves to each boiler Two spring Area of each valve 8.29 Pressure to which they are adjusted 80 lbAre they fitted with easing gear ✓ In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NoSmallest distance between boilers or uptakes and bunkers or woodwork ✓ Mean dia. of boilers 9'-0" Length 9'-0"Material of shell plates Steel Thickness 1/2" Range of tensile strength 27/32 Are the shell plates welded or flanged NoDescrip. of riveting: cir. seams S.R. Lap long. seams J.R. Lap Diameter of rivet holes in long. seams 13/16" Pitch of rivets 3 1/2"Lap of plates or width of butt straps 6 1/2" Per centages of strength of longitudinal joint rivets 75.8 Working pressure of shell byrules 82 lb Size of manhole in shell 16" x 12" Size of compensating ring 7" x 1/2" No. and Description of Furnaces in eachboiler 2 plain Material Steel Outside diameter 2'-9" Length of plain part top 5'-7" Thickness of plates crown 1/2"Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 82 lb Combustion chamberplates: Material Steel Thickness: Sides 1/2" Back 17/32" Top 1/2" Bottom 5/8" Pitch of stays to ditto: Sides 9" x 10 1/2" Back 9" x 9"Top 8" x 11" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 80 lb Material of stays Steel Diameter atsmallest part 1 3/4" Area supported by each stay 94 1/2" Working pressure by rules 113 End plates in steam space: Material Steel Thickness 1/4"Pitch of stays 17 1/2" x 14" How are stays secured Draw in W. Working pressure by rules 80 Material of stays Steel Diameter at smallest part 2.65"Area supported by each stay 302" Working pressure by rules 87 Material of Front plates at bottom Steel Thickness 1/4" Material ofLower back plate Steel Thickness 1/4" Greatest pitch of stays 14" x 9" Working pressure of plate by rules 107 Diameter of tubes 3"Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates Steel Thickness: Front 1/4" Back 7/16" Mean pitch of stays 1 1/4" Pitch across widewater spaces 13" Working pressures by rules 89 Girders to Chamber tops: Material Steel Depth and thickness ofgirder at centre 6" x 1 1/4" Length as per rule 2'-2 3/8" Distance apart 11" Number and pitch of Stays in each Two 8"Working pressure by rules 86.6 Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler workedseparately ✓ 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

VERTICAL DONKEY BOILER—No. 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 BLAKE BOILER, WAGON &

ENGINEERING CO. LIMITED.

MANAGING DIRECTOR

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

Is the approved plan of main boiler forwarded herewith

" donkey "

Lloyd's Register
 Foundation

W713-00447

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

This boiler has been built under Special Survey.
The materials and workmanship are good and efficient.
After satisfactorily withstanding the hydraulic test it has been
despatched for fitting on board.

This boiler has now been efficiently placed on board.

Certificate (if required) to be sent to

The amount of Entry Fee... £ : :
Special ... £ : :
Donkey Boiler Fee ... £ 2 : 2 :
Travelling Expenses (if any) £ : :

Will be
When applied for.

When received.

Per Lloyd's Reg. 9. 11. 06

P.D. Shilston

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute

FRI. NOV 23 1906

Assigned



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Lloyd's Register
Foundation