

REPORT ON BOILERS.

No. 76277

Received at London Office

FRI. 22 DEC. 1922

NEWCASTLE-ON-TYNE

Date of writing Report

19

When handed in at Local Office

21/12/1922 Port of

No. in Survey held at

Survey

Date, First Survey 22 March 1921 Last Survey 20 December 1922

Reg. Book.

55286 on the steel re. BRITISH PREMIER

(Number of Visits)

Gross 6946

Tons Net 3517

Master

Built at Newcastle

By whom built Palmers Sh. & S. G. Co.

When built 1922

Engines made at

Newcastle

By whom made Palmers Sh. & S. G. Co.

When made 1922

Boilers made at

Newcastle

By whom made Palmers Sh. & S. G. Co.

When made 1922

Registered Horse Power

Owners

British Tanker Co. Ltd.

Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Sons Ltd.

Letter for record S Total Heating Surface of Boilers 1102 sq. ft. Is forced draft fitted no No. and Description of

Boilers one S.E. Cylindrical Working Pressure 120 lbs. Tested by hydraulic pressure to 230 lbs. Date of test 14.10.21

No. of Certificate 9614 Can each boiler be worked separately Area of fire grate in each boiler 27 sq. ft. No. and Description of

Safety valves to each boiler two Spring-loaded Area of each valve 7.068 sq. in. Pressure to which they are adjusted 125 lbs.

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 1'6" Mean dia. of boilers 10'6" Length 10'6"

Material of shell plates Steel Thickness 5/8" Range of tensile strength 28/32 to 55 Are the shell plates welded or flanged no

Description of riveting: cir. seams DR. Lap long. seams T.R. S.B.S. Diameter of rivet holes in long. seams 1/16" Pitch of rivets 4 7/8"

Gap of plates or width of butt straps 10 7/16" Per centages of strength of longitudinal joint rivets 93.8 Working pressure of shell by

Rules 125 lbs. Size of manhole in shell 16" x 12" Size of compensating ring 39 x 33 x 7/8 No. and Description of Furnaces in each

Boiler 2 Deighton Material Steel Outside diameter 35 1/2" Length of plain part top Thickness of plates crown 1 1/8"

Description of longitudinal joint weld No. of strengthening rings Working pressure of furnace by the rules 148.8 lbs. Combustion chamber

Plates: Material Steel Thickness: Sides 19/32" Back 3/4" Top 19/32" Bottom 19/32" Pitch of stays to ditto: Sides 10" x 10" Back 10 1/2" x 9 1/2"

Top 10" x 8 1/2" If stays are fitted with nuts or riveted heads nuts in riveted row Working pressure by rules 121.5 lbs. Material of stays Steel Area at

Smallest part 1.448 sq. ft. Area supported by each stay 129 sq. ft. Working pressure by rules 125 lbs. End plates in steam space: Material Steel Thickness 1"

Pitch of stays 24" x 15" How are stays secured D.N. & W. Working pressure by rules 129 1/2 lbs. Material of stays Steel Area at smallest part 4.1080

Area supported by each stay 360 sq. ft. Working pressure by rules 123 1/2 lbs. Material of Front plates at bottom Steel Thickness 3/4" Material of

Lower back plate Steel Thickness 3/4" Greatest pitch of stays 14 1/4" x 9 1/2" Working pressure of plate by rules 155 lbs. Diameter of tubes 3"

Pitch of tubes 4 1/4" Material of tube plates Steel Thickness: Front 3/4" Back 5/8" Mean pitch of stays 12 1/2" x 8 1/2" Pitch across wide

Water spaces 14 1/4" Working pressures by rules 138.5 lbs. Girders to Chamber tops: Material Steel Depth and thickness of

Order at centre 6" x 1" Length as per rule 25 7/8" Distance apart 8 1/2" Number and pitch of Stays in each 200-10"

Working pressure by rules 122.2 lbs. 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

SUPERHEATER. 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

Number of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

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

Percentage of plating Per centage of strength of joint Rivets Plates Working pressure of shell by rules Thickness of shell crown plates

Dia. 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, Manufacturer.

During progress of work in shops --
During erection on board vessel --
Total No. of visits

See Machinery Report.

Is the approved plan of main boiler forwarded herewith For

Palmers Shipbuilding & Iron Works Ltd. Lloyd's Register Foundation

W351-0048

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

This Boiler has been constructed under Special Survey. The workmanship and materials are sound and good. It has been efficiently installed in the vessel and its safety valves have been adjusted under steam to the approved working pressure. The Boiler is fitted for burning oil fuel F.P. above 150°F.

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 FRI. 29 DEC. 1922

Assigned

R. H. Ames.

Engineer Surveyor to Lloyd's Register of Shipping



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Foundation