

REPORT ON BOILERS.

No. 76277.

Received at London Office FRI. 22 DEC. 1922

Date of writing Report 19 When handed in at Local Office 21/12/1922 Port of NEWCASTLE-ON-TYNE.

Boilers Yes No. in Survey held at Larrow Date, First Survey 22 March 1922 Last Survey 20 December 1922

Reg. Book. 5286 on the STEEL SC. BRITISH PREMIER (Number of Visits —) Gross 6046

Master Built at Newcastle By whom built Palmer's S.B. & J. Co. Ltd. When built 1922

Engines made at Newcastle By whom made Palmer's S.B. & J. Co. Ltd. When made 1922

Boilers made at Newcastle By whom made Palmer's S.B. & J. Co. Ltd. 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 7737 sq ft Is forced draft fitted Yes No. and Description of Boilers 3 Single-Ended Cylindrical Working Pressure 200 lbs Tested by hydraulic pressure to 350 lbs Date of test 17. 7. 22

No. of Certificate 9647 Can each boiler be worked separately Yes Area of fire grate in each boiler Oil fuel No. and Description of safety valves to each boiler Two spring-loaded Area of each valve 9.62 sq ft Pressure to which they are adjusted 205 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 21" Inside Mean dia. of boilers 15'-0" Length 12'-0"

Material of shell plates Steel Thickness 1 3/8" Range of tensile strength 28/32 sq in Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams D.R. Lap. long. seams T.R. D.B.S. Diameter of rivet holes in long. seams 1 3/8" Pitch of rivets 9 5/8"

of plates or width of butt straps 20 5/16" Per centages of strength of longitudinal joint rivets 86.4 plate 85.7 Working pressure of shell by rules 203

Size of manhole in shell 16" x 12" Size of compensating ring 46 3/4" x 33" No. and Description of Furnaces in each

3 Deighton Material Steel Outside diameter 46 3/4" Length of plain part top bottom Thickness of plates crown bottom 7/8"

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 208 Combustion chamber

Material Steel Thickness: Sides 23/32" Back 3/4" Top 23/32" Bottom 7/8" Pitch of stays to ditto: Sides 10" x 8 3/8" Back 8" x 8"

11" x 7 1/2" If stays are fitted with nuts or riveted heads both Working pressure by rules 202 Material of stays Steel Area at smallest part 1.73 2.03 2.71 sq in Area supported by each stay 64 81 sq in Working pressure by rules 217 End plates in steam space: Material Steel Thickness 1 5/32"

Area supported by each stay 22 x 21 1/4" How are stays secured D.N. + W. Working pressure by rules 203 Material of stays Steel Area at smallest part 8.48 sq in

Area supported by each stay 467 sq in Working pressure by rules 203 Material of Front plates at bottom Steel Thickness 15/16" Material of

Back plate Steel Thickness 7/8" Greatest pitch of stays 14 1/4" x 8" Working pressure of plate by rules 209 Diameter of tubes 3"

of tubes 4 1/4" x 4 3/8" Material of tube plates Steel Thickness: Front 15/16" Back 13/16" Mean pitch of stays 10 1/2" Pitch across wide

spaces 14 1/4" Working pressures by rules 211 Girders to Chamber tops: Material Steel Depth and thickness of

der at centre 9" x 1 1/4" Length as per rule 32 5/8" Distance apart 7 1/2" Number and pitch of Stays in each Two 11"

Working pressure by rules 228 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 Yes Date of Approval of Plan 25/2/21 Tested by Hydraulic Pressure to 400 lbs

Date of Test 14-8-22 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 1 1/2" Pressure to which each is adjusted 310 lbs Is Easing Gear fitted Yes

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

length Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets

up of plating Per centage of strength of joint Plates 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, Manufacturer.

Dates During progress of work in shops -- Survey while building -- Total No. of visits

See Machinery Report.

Is the approved plan of main boiler forwarded herewith

Palmer's Shipbuilding & Iron Works

General Manager, Engine Works

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W351-0049

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

These Boilers have been built under special survey. The workmanship and materials are sound and good. They have been efficiently installed in the vessel and the main and superheater safety valves have been adjusted under steam to the approved working pressure. These Boilers are fitted for burning Oil Fuel F.R. 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. Lee Amnest.

Engineer Surveyor to Lloyd's Register of Shipping



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