

REPORT ON BOILERS.

No. 76277

Received at London Office
 FRI. 22 DEC. 1922
 Date of writing Report 10 When handed in at Local Office 27/12/1922 Port of NEWCASTLE-ON-TYNE
 Boilers Yes No. in Survey held at Larrow Date, First Survey 22 March Last Survey 20 December 1922
 Reg. Book. 5286 on the STEEL SC. BRITISH PREMIER (Number of Visits —) Gross 6046 Net 3517
 Master Built at Newcastle By whom built Palmers S.B. + J. Co. Ltd. When built 1922
 Engines made at Newcastle By whom made Palmers S.B. + J. Co. Ltd. When made 1922
 Boilers made at Newcastle By whom made Palmers 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 Stone Ltd.

Letter for record 5 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 Main 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 1/16" 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 1/2" 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 7/8" bottom 1/2"
 Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 208 Combustion chamber 11 1/2" x 7 1/2"
 Material Steel Thickness: Sides 23/32" Back 3/4" Top 23/32" Bottom 7/8" Pitch of stays to ditto: Sides 10" x 5 1/2" Back 8" x 8"
 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 1/2"
 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 boiler back plate Steel Thickness 2 3/8" Greatest pitch of stays 14 1/2" x 8" Working pressure of plate by rules 209 Diameter of tubes 3"
 Diameter of tubes 4 1/2" 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 girder 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

RETAIN
 SUPERHEATER. 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 strength
 Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivets
 Thickness of shell crown plates
 Working pressure of shell by rules
 Diameter of furnace Top Bottom Length of furnace
 Working pressure of furnace by rules Thickness of furnace crown plates
 Diameter of uptake Thickness of uptake plates
 The foregoing is a correct description,
 Manufacturer.

See Machinery Report.
 Dates During progress of work in shops --
 Survey while building During erection on board vessel --
 Total No. of visits
 For the approved plan of main boiler forwarded herewith
 Palmers 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.....

R. Lee Amnest.
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute
Assigned
FRI. 29 DEC. 1922

