

## REPORT ON BOILERS.

No. 28236

WED. DEC. 28 1921

Received at London Office

Date of writing Report

19

When handed in at Local Office

23 DEC 1921

Port of

SUNDERLAND

No. in Survey held at  
Reg. Book.

SUNDERLAND

Date, First Survey

Last Survey

Dec 14 1921

(Number of Visits

Gross

6735

Tons

Net 4025

on the S/S "BRITISH JUDGE"

Master

Built at

Sunderland

By whom built

Sir Jas Laing &amp; Sons Ltd 679 When built 1921

Engines made at

Sunderland

By whom made

Messrs G. Clark Ltd

When made 1921

Boilers made at

Sunderland

By whom made

Messrs G. Clark Ltd (10524 1/2)

When made 1921

Registered Horse Power

Owners

The British Tanker Co. Ltd

Port belonging to London

MULTITUBULAR BOILERS — MAIN, AUXILIARY OR DONKEY. — Manufacturers of Steel Spencer & Sons(Letter for record S) Total Heating Surface of Boilers 9928.974 Is forced draft fitted NO No. and Description ofBoilers one Single Ended Working Pressure 120 lbs Tested by hydraulic pressure to 240 lbs Date of test 19.9.21No. of Certificate 3776 Can each boiler be worked separately ✓ Area of fire grate in each boiler oil fuel only No. and Description ofsafety valves to each boiler Two Spring Valves Area of each valve 5.41 sq ft Pressure to which they are adjusted 125 lbsAre they fitted with easing gear yes 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 no bunkers in way of boiler dia. of boilers 10.4 5/8 Length 10-6Material of shell plates S Thickness 1/2 Range of tensile strength 28-32 Are the shell plates welded or flanged yesDescrip. of riveting: cir. seams laps all long. seams d. & d. riv. Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 3 1/8Lap of plates or width of butt straps 9 1/2 Per centages of strength of longitudinal joint 81 Working pressure of shell byrules 123 Size of manhole in shell 12x16 Size of compensating ring 8 1/2 x 1/2 No. and Description of Furnaces in eachboiler 2 Dighton Material S Outside diameter 38 1/2" Length of plain part top Thickness of plates crown 3/8Description of longitudinal joint welded No. of strengthening rings ✓ Working pressure of furnace by the rules 149 Combustion chamberplates: Material S Thickness: Sides 5/8 Back 5/8 Top 5/8 Bottom 5/8 Pitch of stays to ditto: Sides 10 3/4 x 9 Back 8 3/4 x 8 1/2Top 8 3/4 x 12 If stays are fitted with nuts or riveted heads yes Working pressure by rules 121 Material of stays S Area atsmallest part 1.23 sq ft Area supported by each stay 96 3/4 sq in Working pressure by rules 157 End plates in steam space: Material S Thickness 1 3/4Pitch of stays 20 x 24 How are stays secured d. & d. riv. Working pressure by rules 124 Material of stays S Area at smallest part 49 sq inArea supported by each stay 490 sq in Working pressure by rules 131 Material of Front plates at bottom S Thickness 1 3/4 Material ofLower back plate S Thickness 1 3/4 Greatest pitch of stays 14 1/2 Working pressure of plate by rules 340 Diameter of tubes 3Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates S Thickness: Front 1 3/4 Back 1/2 Mean pitch of stays 10 1/2 Pitch across widewater spaces 14" Working pressures by rules 228 Girders to Chamber tops: Material S Depth and thickness ofgirder at centre 6 1/2 x 13 1/4 Length as per rule 27 1/2 Distance apart 12" Number and pitch of Stays in each 2, 8 3/4Working pressure by rules 125 Steam dome: description of joint to shell ✓ % 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 ✓UPPERHEATER. Type ✓ 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 ✓Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

The foregoing is a correct description,

FOR GEORGE CLARK LIMITED

Manufacturer.

Dates of Survey  
During progress of work in shops --  
while building  
During erection on board vessel --

Please see Machinery Report

Is the approved plan of boiler forwarded herewith

Total No. of visits ✓

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

The donkey boiler for this vessel has been built under special survey. The materials and workmanship are sound and good and the boiler has been fitted and fixed in a satisfactory manner.

Survey Fee ... £ 6 : 12 : ✓

When applied for, 20 Dec 1921

Travelling Expenses (if any) £ : : ✓

When received, 24.12.21

*[Signature]*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

THE 3 JAN. 1922

W1630-0074

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Lloyd's Register  
Foundation