

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 SUNDERLAND. Date, First Survey Last Survey Dec 14 1921

Reg. Book. on the S/S "BRITISH JUDGE" (Number of Visits) Gross 6735 Net 4025

Master Built at Sunderland By whom built Sir Jas Laing & 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) 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 Spenser & Sons

(Letter for record 5) Total Heating Surface of Boilers 9928.974 Is forced draft fitted NO No. and Description of Boilers one Single Ended Working Pressure 120 lbs Tested by hydraulic pressure to 240 lbs Date of test 19.9.21

No. of Certificate 3776 Can each boiler be worked separately Area of fire grate in each boiler oil fuel only No. and Description of safety valves to each boiler Two Spring Valves Area of each valve 5.41 sq ft Pressure to which they are adjusted 125 lbs

Are they fitted with easing gear No 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 No bunkers in way of boiler 14 dia. of boilers 10.45 Length 10-6

Material of shell plates S Thickness 1/8 Range of tensile strength 28-32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Lap Riv. long. seams d. riv. Diameter of rivet holes in long. seams 15/16 Pitch of rivets 3 1/8

Lap of plates or width of butt straps 9 1/2 Per centages of strength of longitudinal joint rivets 81 plate 75.7 Working pressure of shell by rules 123 Size of manhole in shell 12x16 Size of compensating ring 8 1/2 x 1/8

boiler 2 Dighton Material S Outside diameter 38 1/2 Length of plain part top bottom Thickness of plates crown 7 3/8 bottom 7 3/8

Description of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 149 Combustion chamber plates: 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 1/2

Top 8 3/4 x 12 If stays are fitted with nuts or riveted heads 9 nuts Working pressure by rules 121 Material of stays S Area at smallest part 1.73 Area supported by each stay 96 3/4 Working pressure by rules 157 End plates in steam space: Material S Thickness 1 3/4

Pitch of stays 20 x 24 1/2 How are stays secured d. riv. Working pressure by rules 124 Material of stays S Area at smallest part 490

Area supported by each stay 490 Working pressure by rules 131 Material of Front plates at bottom S Thickness 1 3/2 Material of Lower back plate S Thickness 1 3/2 Greatest pitch of stays 14 1/2 Working pressure of plate by rules 340 Diameter of tubes 3

Pitch of tubes 4 1/8 x 4 1/8 Material of tube plates S Thickness: Front 1 3/2 Back 1/8 Mean pitch of stays 10 1/2 Pitch across wide water spaces 14 Working pressures by rules 228 Girders to Chamber tops: Material S Depth and thickness of girder at centre 6 1/8 x 1 3/4 Length as per rule 27 1/2 Distance apart 12 Number and pitch of Stays in each 2, 8 3/4

Working 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

UPERHEATER. 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 149 BRILLIA Manufacturer.

Dates of Survey During progress of work in shops - - - Please see Machinery Report Is the approved plan of boiler forwarded herewith while building During erection on board vessel - - - Total No. of visits

GENERAL REMARKS (State quality of workmanship, opinions as to class, &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 fired in a satisfactory manner

Survey Fee ... £ 6 : 12 : } When applied for, 20 Dec 1921
Travelling Expenses (if any) £ : : } When received, 24.12.21

Committee's Minute THE 3 JAN. 1922
Assigned
Engineer Surveyor to Lloyd's Register of Shipping.

