

REPORT ON BOILERS.

No. 28450

Received at London Office SAT. NOV. 4 1922

Date of writing Report 19 When handed in at Local Office - 3 NOV 1922 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey Last Survey Nov 2 1922

Reg. Book. on the new steel S/S "BRITISH LORD" (Number of Visits) Gross 6098 Tons Net 3561

Master Built at Sunderland By whom built J. Thompson & Sons Ltd (S/S N° 547) When built 1922

Engines made at Manchester By whom made Metropolitan Vickers Ltd (N° 1970-1) when made 1922

Boilers made at Sunderland By whom made J. Dickinson & Sons Ltd (N° 1067) when made 1920

Registered Horse Power Owners British Tankers Co Limited Port belonging to London

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

(Letter for record S) Total Heating Surface of Boilers 8780 sq ft Is forced draft fitted no No. and Description of Boilers one, single ended marine Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 4-11-20

No. of Certificate 3730 Can each boiler be worked separately no Area of fire grate in each boiler 28.8 sq ft No. and Description of safety valves to each boiler two, direct spring Area of each valve 4.90" Pressure to which they are adjusted 150

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 none near dia. of boilers 10'-6" Length 10'-0"

Material of shell plates steel Thickness 7/8" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams DR long. seams WBS. TR Diameter of rivet holes in long. seams 1" Pitch of rivets 6 7/8"

Gap of plates or width of butt straps 1'-2 3/4" Per centages of strength of longitudinal joint rivets 91" plate 85.4" Working pressure of shell by rules 181 Size of manhole in shell 16" x 12" Size of compensating ring 8" x 7/8" No. and Description of Furnaces in each boiler two, plain Material steel Outside diameter 36" Length of plain part top 74" bottom 79 1/4" Thickness of plates crown 45" bottom 64"

Description of longitudinal joint welded No. of strengthening rings none Working pressure of furnace by the rules 183 Combustion chamber plates: Material steel Thickness: Sides 1 1/16" Back 1 1/16" Top 1 1/16" Bottom 1 5/16" Pitch of stays to ditto: Sides 10" x 9" Back 10 1/2" x 8 3/8"

Top 9" x 7 1/2" If stays are fitted with nuts or riveted heads nuts in use Working pressure by rules 180 Material of stays steel Diameter at smallest part 2.030" Area supported by each stay 99.70" Working pressure by rules 183 End plates in steam space: Material steel Thickness 29"

Pitch of stays 15" x 14 3/8" How are stays secured W-W Working pressure by rules 180 Material of stays steel Diameter at smallest part 4.130"

Area supported by each stay 2160" Working pressure by rules 199 Material of Front plates at bottom steel Thickness 29" Material of Lower back plate steel Thickness 29" Greatest pitch of stays 13 1/4" x 8 3/8" Working pressure of plate by rules 231 Diameter of tubes 3 1/2"

Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates steel Thickness: Front 29" Back 13/16" Mean pitch of stays 9" Pitch across wide water spaces 4 1/4" + 5/8" Working pressures by rules 262 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 2 @ 5 3/4" x 15" Length as per rule 26 29/32" Distance apart 7 1/2" Number and pitch of Stays in each 2 @ 9"

Working pressure by rules 182 Superheater or Steam chest: how connected to boiler Can the superheater be shut off and the boiler worked separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

If stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

The foregoing is a correct description,
John Dickinson & Sons, Limited.
Manufacturer.

Dates of Survey During progress of work in shops - - - Please see Machinery Report Is the approved plan of boiler forwarded herewith Yes

while building During erection on board vessel - - - Total No. of visits

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

The materials and workmanship are good

The boiler has been constructed under special survey

The boiler has been satisfactorily fitted in the vessel and its safety valves adjusted under steam.

Survey Fee ... £ 5 : 18 : When applied for. 3 NOV 1922

Travelling Expenses (if any) £ : : When received. 6 NOV 1922

J. C. Davis
Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUE. NOV. 7 1922

Assigned



W11630-0058

If not, state whether, and when, one will be sent? Is a report also sent on the Hull of the Ship?