

REPORT ON BOILERS.

No. 7712

Date of writing Report 12th Oct 1923 When handed in at Local Office 12th Oct 1923 Port of NEWCASTLE

Received at London Office MON. 15 OCT. 1923

No. in Survey held at WALKER

Date, First Survey 13th Dec 1922 Last Survey 11th October 1923

Reg. Book.

38178 on the STEEL SCREW STEAMER of BRITISH HUSSAR.

Master Walker Built at Halkeron Lane By whom built Wm Hunter & H. Richardson Ltd When built 1923

Engines made at Manchester By whom made Metropolitan Electric Works When made 1923

Boilers made at WALKER By whom made SWAN HUNTER WIGHAM RICHARDSON When made 1923

Registered Horse Power 642 Owners British Tankers Co Ltd Port belonging to London

MULTITUBULAR BOILERS—~~MAIN, AUXILIARY OR DONKEY.~~—Manufacturers of Steel J Spence & Co

(Letter for record S) Total Heating Surface of Boilers 1020 Is forced draft fitted NO No. and Description of Boilers ONE S.E. CYL. MULTITUBULAR Working Pressure 120 lb Tested by hydraulic pressure to 230 Date of test 22.3.23

No. of Certificate 9743 Can each boiler be worked separately ✓ Area of fire grate in each boiler OIL FUEL No. and Description of safety valves to each boiler TWO DIRECT SPRING Area of each valve 5.93 Pressure to which they are adjusted 125 lb

Are they fitted with easing gear yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NR Valve

Smallest distance between boilers or uptakes and bunkers or woodwork 6'-0" dia. of boilers 10'-6" Length 10'-6"

Material of shell plates STEEL Thickness 3/32 Range of tensile strength 30/34 tons Are the shell plates welded or flanged NO

Descrip. of riveting: cir. seams D.R.L. long. seams D.B.S.D.R. Diameter of rivet holes in long. seams 7/8 Pitch of rivets 3 1/2

Lap of plates or width of butt straps 8 3/4 Per centages of strength of longitudinal joint rivets 75.1% Working pressure of shell by rules 124 lb Size of manhole in shell 16" x 12" Size of compensating ring 2-9 3/4 x 2-5 1/4 x 3/32 plate 75.0%

boiler TWO DEIGHTONS Material STEEL Outside diameter 3'-2 1/8 Length of plain part 4'-0 1/4 Thickness of plates 3/8

Description of longitudinal joint WELD No. of strengthening rings NONE Working pressure of furnace by the rules 152 lb Combustion chamber plates: Material STEEL Thickness: Sides 11/32 Back 3/32 Top 17/32 Bottom 5/8 Pitch of stays to ditto: Sides 9 3/4 x 8 Back 9 1/2 x 8 1/4

Top 9 1/4 x 8 If stays are fitted with nuts or riveted heads SEE PLAN Working pressure by rules 120 lb Material of stays STEEL

Area supported by each stay 78.4 Working pressure by rules 129 lb End plates in steam space: Material STEEL Thickness 7/8

Pitch of stays 20 x 13 1/2 How are stays secured D.N. Working pressure by rules 120 lb Material of stays STEEL Area at smallest part 8 1/4

Area supported by each stay 286 Working pressure by rules 121 lb Material of Front plates at bottom STEEL Thickness 7/8 Material of Lower back plate STEEL Thickness 7/8 Greatest pitch of stays 13 1/2 x 9 1/2 Working pressure of plate by rules 230 lb Diameter of tubes 2 1/2

Pitch of tubes 3 3/4 x 3 3/4 Material of tube plates STEEL Thickness: Front 7/8 Back 5/8 Mean pitch of stays 9 3/8 Pitch across wide water spaces 13 1/2 Working pressures by rules 13 156 lb Girders to Chamber tops: Material STEEL Depth and thickness of girder at centre 6 3/4 x 1 1/4 Length as per rule 28.71 Distance apart 9 1/4 Number and pitch of Stays in each 3 of 8 pitch

Working pressure by rules 133 lb 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 NONE 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 ✓

VERTICAL DONKEY BOILER—No. None Description None Manufacturers of steel None

Made at None By whom made None When made None Where fixed None Working pressure None

Tested by hydraulic pressure to None Date of test None No. of Certificate None Fire grate area None Description of safety valves None

No. of safety valves None Area of each None Pressure to which they are adjusted None If fitted with easing gear None If steam from main boilers can enter the donkey boiler None

Dia. of donkey boiler None Length None Material of shell plates None Thickness None Range of tensile strength None

Descrip. of riveting long. seams None Dia. of rivet holes None Whether punched or drilled None Pitch of rivets None

Per centage of strength of joint None Rivets None Working pressure of shell by rules None Thickness of shell crown plates None

No. of Stays to do. None Dia. of stays None Diameter of furnace Top None Bottom None Length of furnace None

Thickness of furnace plates None Description of joint None Working pressure of furnace by rules None Thickness of furnace crown plates None

Radius of do. None Stayed by None Diameter of uptake None Thickness of uptake plates None

Thickness of water tubes None

The foregoing is a correct description.

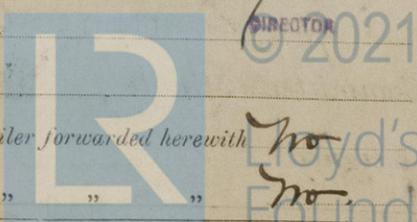
G. J. Street Manufacturer.

See Machinery Report.

During progress of work in shops --
During erection on board vessel --
Total No. of visits

Is the approved plan of main boiler forwarded herewith No

“ “ “ donkey “ “ No



W1630-0095

GENERAL REMARKS

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

The donkey boiler built under special survey, the materials & workmanship found good and efficient, the boiler tested under 230 lbs hydraulic pressure at the makers works, found satisfactory, fitted up on board the vessel in tween decks, tested under steam 125 lbs, found satisfactory, Oil fuel installation worked satisfactorily under natural draught. with record of fitted for burning oil fuel 10.23 flash point above 150° F.

Certificates (if required) to be sent to

(The Surveys are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee .. £	Lee	:	When applied for.
Special	Machinery	:	19.....
Donkey Boiler Fee £	report.	:	When received,
Travelling Expenses (if any) £		:	19.....

Committee's Minute TUE OCT. 6 1923

Assigned

L. G. Shallowers
Engineer Surveyor to Lloyd's Register of Shipping



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Foundation