

REPORT ON BOILERS.

No. 77121

Received at London Office MON. 15 OCT. 1923
 Date of writing Report 12th Oct 1923 When handed in at Local Office 27th Oct 1923 Port of NEWCASTLE ON TYNE
 No. in Survey held at Newcastle on Tyne Date, First Survey 13th Dec. 1922 Last Survey 11th October 1923
 Reg. Book. 38178 on the STEEL SCREW STEAMER BRITISH HUSSAR (Number of Visits 1138) Gross 6942 Tons Net 4100
 Master Built at Newcastle By whom built S. H. W. R. L^D 1138 When built 1923
 Engines made at Newcastle By whom made S. H. W. R. L^D 1138 When made 1923
 Boilers made at WALKER By whom made SWAN, HUNTER, WIGHAM RICHARDSON^{L^D} When made 1923
 Registered Horse Power 642 Owners BRITISH TANKERS, L^D. Port belonging to LONDON

MULTITUBULAR BOILERS—MAIN, ~~AUXILIARY OR DONKEY~~.—Manufacturers of Steel *Spence & Co. Ltd. Newcastle*
 (Letter for record *S*) Total Heating Surface of Boilers 8225 *sq* Is forced draft fitted YES. No. and Description of Boilers 3. S E CYL. MULTI Working Pressure 200 *lb* Tested by hydraulic pressure to 350 *lb* Date of test 11/6/23
 No. of Certificate 9767. 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 2 DIRECT SPRING Area of each valve 11.04 *sq* Pressure to which they are adjusted 205 *lb* *pro*
 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 12" Mean dia. of boilers 16'-0" Length 12'-0"
 Material of shell plates STEEL Thickness 1 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 A P long. seams D B S T R Diameter of rivet holes in long. seams 13/8" Pitch of rivets 9 1/4"
 Length of plates or width of butt straps 20 7/8" Per centages of strength of longitudinal joint rivets 85.9% Working pressure of shell by rules 201 *lb* Size of manhole in shell 16" x 12" FLANGED plate 85.13%
 Size of compensating ring 3'-5 1/4" x 3'-1 1/4" x 1 1/32" No. and Description of Furnaces in each boiler 4 DEIGHTONS Material STEEL Outside diameter 3'-6 7/8" Length of plain part top 8'-0 1/4" Thickness of plates crown 9/16" bottom
 Description of longitudinal joint WELD No. of strengthening rings NONE Working pressure of furnace by the rules 210 *lb* Combustion chamber plates: Material STEEL Thickness: Sides 11/16" Back W. 3/4" Top 11/16" Bottom 15/16" Pitch of stays to ditto: Sides 8 1/2" x 9 1/4" Back W. 8 1/4" x 8"
 Top 8 1/2" x 9" If stays are fitted with nuts or riveted heads SEE PLAN Working pressure by rules 200 *lb* Material of stays STEEL
 DIA smallest part 1 5/8" Area supported by each stay 74.25 Working pressure by rules 203 *lb* End plates in steam space: Material STEEL Thickness 1 9/32"
 Pitch of stays 17 1/2" x 21 How are stays secured D. NUTS Working pressure by rules 208 *lb* Material of stays STEEL DIA Area at smallest part 3 1/8"
 Area supported by each stay 357 *sq* Working pressure by rules 206 Material of Front plates at bottom STEEL Thickness 1" Material of Lower back plate STEEL Thickness 15/16" Greatest pitch of stays 14 1/2" x 8 1/4" Working pressure of plate by rules 259 *lb* Diameter of tubes 3 1/4"
 Pitch of tubes 4 1/2" x 4 1/2" Material of tube plates STEEL Thickness: Front 1" Back 7/8" Mean pitch of stays 11 1/4" Pitch across wide water spaces 14 1/4" Working pressures by rules B. 218 *lb* Girders to Chamber tops: Material STEEL Depth and thickness of girder at centre 9 x 1 1/2" Length as per rule 32.4" Distance apart 9" Number and pitch of Stays in each 3 of 8 1/2" pitch
 Working pressure by rules 207 *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 600 *lb* / 400 *lb* LGS

UPERHEATER. Type ROBINSON Date of Approval of Plan 5.10.22. 11.12.22 Tested by Hydraulic Pressure to 600 *lb* / 400 *lb* LGS
 Date of Test 10/7/23 - 28.9.23 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 207 *lb* *pro* Is Easing Gear fitted *yes*
 VERTICAL DONKEY BOILER—No. NONE 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
 Length of plating Per centage of strength of joint Rivets Working pressure of shell by rules Thickness of shell crown plates
 Dia. of do. No. of Stays to do. Dia. of stays Diameter of furnace Top Bottom Length of furnace
 Thickness of furnace plates Description of joint Working pressure of furnace by rules Thickness of furnace crown
 Radius of do. Stayed by Diameter of uptake Thickness of uptake plates
 Thickness of water tubes

The foregoing is a correct description,
 SWAN, HUNTER & WIGHAM RICHARDSON, LTD. Manufacturer.

ates During progress of work in shops --
 Survey During erection on board vessel --
 hile
 lding Total No. of visits.

See Machinery Report

G. F. Sweet

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

W1630-0094

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

The 3 main boilers built under special survey, the materials and workmanship found good & efficient, the boilers tested under 350 lbs per sq. in. hydraulic pressure at the makers works, found satisfactory, fitted up on board the vessel. tested under steam 205 lbs, found satisfactory, oil fuel installation worked satisfactorily under forced draught.
 "fitted for burning oil fuel. 10.23. flash point above 150° F.

Certificate (if required) to be sent to

The amount of Entry Fee .. £	Lee :	When applied for.
Special	£ Manchester	19....
Donkey Boiler Fee	£ Report	When received.
Travelling Expenses (if any) £	no 5136	19....

Committee's Minute

TUE OCT 16 1923

Assigned

L. G. Shallowors

Engineer Surveyor to Lloyd's Register of Shipping



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