

REPORT ON BOILERS.

Son. Rpt. No. 10806.

No. 39336

Received at London Office

Date of writing Report 1919 When handed in at Local Office 10/11/1919 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 21/3/18 Last Survey 1/11/19

Req. Book. on the Main Boiler No 1675. S.S. SOJOURNER (Number of Visits 24) Gross 435 Tons Net 200.2

Master Built at Gosport By whom built Camper & Nicholson When built 1919

Engines made at Clydebank By whom made Hichison Blair & Co When made 1919

Boilers made at Glasgow By whom made South Shipbuilding & Eng. Coy When made 1919

Registered Horse Power Owners Robinson, Brown & Co Ltd Port belonging to Newcastle

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Glasgow J & S Co Ltd

(Letter for record S) Total Heating Surface of Boilers 1486 Sq Ft. Is forced draft fitted No. and Description of Boilers

Old Single Ended Working Pressure 130 Tested by hydraulic pressure to 260 Date of test 1/11/19

No. of Certificate 14962 Can each boiler be worked separately No Area of fire grate in each boiler 49.75 Sq Ft. No. and Description of safety valves to each boiler

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

Smallest distance between boilers or uptakes and bunkers or woodwork dia. of boilers 13'-0" Length 10'-0"

Material of shell plates S Thickness 13/16 Range of tensile strength 28/32 Are the shell plates welded or flanged No

Descrip. of riveting: cir. seams Lap & R. long. seams S & Bells Lap Riv Diameter of rivet holes in long. seams 15/16 Pitch of rivets 5 7/8

Lap of plates or width of butt straps 1'-3" Per centages of strength of longitudinal joint rivets 86. Working pressure of shell by rules 130

Size of manhole in shell 12 1/2 x 16 1/2 Size of compensating ring 2'-6 1/2 x 2'-2 1/2 x 19/16 No. and Description of Furnaces in each boiler

Three plain Material Steel Outside diameter 41 1/2 Length of plain part top 72 ins. Thickness of plates crown 3/8 bottom 5/8

Description of longitudinal joint Weld No. of strengthening rings none Working pressure of furnace by the rules 140 Combustion chamber plates: Material S. Thickness: Sides 19/32 Back 7/16 Top 19/32 Bottom 19/32

Pitch of stays to ditto: Sides 9x10 Back 9 1/4 x 9 Top 9x10 If stays are fitted with nuts or riveted heads Yes Working pressure by rules 132 Material of stays Steel Area at smallest part 45.9 sq in

Area supported by each stay 83.9 sq in Working pressure by rules 139 End plates in steam space: Material S Thickness 7/16

Pitch of stays 18x17 1/2 How are stays secured Nuts & Washers Working pressure by rules 131 Material of stays S Area at smallest part 43.9 sq in

Area supported by each stay 91.5 sq in Working pressure by rules 141 Material of Front plates at bottom S Thickness 3/4 Material of Lower back plate S

Thickness 3/4 Greatest pitch of stays 14x9 Working pressure of plate by rules 140 Diameter of tubes 32

Pitch of tubes 4 7/8 Material of tube plates S Thickness: Front 3/4 Back 7/16 Mean pitch of stays 9 1/4 Pitch across wide water spaces 14

Working pressures by rules with boiler 183 Girders to Chamber tops: Material S Depth and thickness of girder at centre 7 3/4 x 11 1/2 x 2 Length as per rule 29 3/4 Distance apart 10

Number and pitch of Stays in each No 14 at 9 in Working pressure by rules 141 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

SUPERHEATER. 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

Survey request form No 2154 attached

The foregoing is a correct description, FOR THE FORTH SHIPBUILDING & ENGINEERING CO., LTD. (LINDSAY BURNETT'S BOILER WORKS) Sinclair Cooper Manufacturer.

Dates of Survey During progress of 1918 Mar 21-Apr 28-10-24-29 May 10-15-21-29 Is the approved plan of boiler forwarded herewith Yes work in shops - - - June 4-Aug 14-20 Sept 3-10 Oct 19-1919 Mar 20-25 May 13. building while During erection on board vessel - - - June 24-Sept 5-9-15-22 Oct 6-21-29 Nov. Total No. of visits 24.

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

The boiler has been built under special survey. The workmanship and materials are good. The boiler has been efficiently fitted on board, and on trial proved satisfactory.

Survey Fee £ 4 : 19 : When applied for, 18.11.1919 Travelling Expenses (if any) £ : : When received, 19.11.1919

Committee's Minute GLASGOW 18 NOV 1919 FRI. 24 DEC. 1919 TUE. JAN. 18 1921 Assigned TRANSMIT TO LONDON

