

REPORT ON BOILERS.

No. 17837

Received at London Office WED. 15 JUN. 1921

Date of writing Report 8 June 19 When handed in at Local Office 10 June 1921 Port of Greenock

No. in Survey held at Greenock Date, First Survey 28th Dec. 1920. Last Survey 8 June 1921

Reg. Book. on the SS. Siam Far Sang (Number of Visits 39) Gross 2256 Tons Net 1232

Master Built at Sat Sargan By whom built Dunlop Munro & Co When built 1921

Engines made at Sat Sargan By whom made Dunlop Munro & Co When made 1921

Boilers made at Greenock By whom made John S Kincaid & Co When made 1921

Registered Horse Power Owners Indo China Steam Nav. Co. Ltd. Port belonging to London

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Clyde Iron Works Ltd

(Letter for record S) Total Heating Surface of Boilers 4435 sq ft Is forced draft fitted Yes No. and Description of

Boilers Two single ended Working Pressure 180 lbs Tested by hydraulic pressure to 320 lbs Date of test 8/6/21

No. of Certificate 1573 Can each boiler be worked separately Yes Area of fire grate in each boiler 52.5 sq ft No. and Description of

safety valves to each boiler Two Area of each valve 8.29 sq in Pressure to which they are adjusted 185 lbs

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

Smallest distance between boilers or uptakes and bunkers or woodwork 27" Mean dia. of boilers 14' 3" Length 11' 6"

Material of shell plates Steel Thickness 1 1/16" Range of tensile strength 28/32 Are the shell plates welded or flanged Yes

Descrip. of riveting: Butt seams all with long. seams all with Steel Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 8 1/4"

Lap of plates or width of butt straps 18 1/2" Per centages of strength of longitudinal joint rivets 87.72 Working pressure of shell by plate 85.71

rules 185 lbs Size of manhole in shell 16" x 12" Size of compensating ring 14 1/16" No. and Description of Furnaces in each

boiler 1 Material Steel Outside diameter 44 1/4" Length of plain part 17' 3/4" Thickness of plates 17/32"

Description of longitudinal joint Butt No. of strengthening rings None Working pressure of furnace by the rules 184 lbs Combustion chamber

plates: Material Steel Thickness: Sides 10/16" Back 11/16" Top 10/16" Bottom 12/16" Pitch of stays to ditto: Sides 9 1/2" x 9"

Top 9 1/2" x 9" If stays are fitted with nuts or riveted heads None Working pressure by rules 183 lbs Material of stays Steel Area at

smallest part 1.79 sq ft Area supported by each stay 85.5 sq in Working pressure by rules 188 lbs End plates in steam space: Material Steel Thickness 17/32"

Pitch of stays 19" x 20" How are stays secured all with Working pressure by rules 185 lbs Material of stays Steel Area at smallest part 6.66 sq ft

Area supported by each stay 380 sq in Working pressure by rules 182 lbs Material of Front plates at bottom Steel Thickness 3 1/2" Material of

Lower back plate Steel Thickness 27/32" Greatest pitch of stays 15 1/2" Working pressure of plate by rules 186 lbs Diameter of tubes 2 1/2"

Pitch of tubes 3 1/4" Material of tube plates Steel Thickness: Front 3 1/2" Back 2 3/2" Mean pitch of stays 9 1/4" Pitch across wide

water spaces 13 1/2" Working pressures by rules 184 lbs Girders to Chamber tops: Material Steel Depth and thickness of

girder at centre 9 1/2" x 1 1/2" Length as per rule 32.6" Distance apart 9" Number and pitch of Stays in each Three 8 1/2"

Working pressure by rules 185 lbs 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 _____

Request B.46. attached.

The foregoing is a correct description, FOR JOHN G. KINCAID & COY., LIMITED, Manufacturer.

Dates of Survey: During progress of work in shops (1920 Dec. 23, 1921 Jan. 13-15, 23, Feb. 1-4, 8, 14, 18, 23, Mar. 4, 7, 10, 22) Is the approved plan of boiler forwarded herewith See serials. while building (During erection on board vessel (30. 31. Apr. 5, 7, 8, 11, 15, 18, 20, 22, 26, 29, May 2, 4, 6, 11, 13, 19, 26, 28, 27, 30, Jun 2, 6, 8) Total No. of visits 39)

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

Workmanship Good. These main boilers have been constructed under special survey in accordance with the approved Rules. Tested by hydraulic pressure and found good. Will be fitted to the above vessel at Sat Sargan. These boilers have been efficiently fitted on board the above named steamer.

Survey Fee ... £ 31 : 0 : } When applied for, 11/6/1921. Travelling Expenses (if any) £ : : } When received, 1/9/1921.

Committee's Minute Assigned GLASGOW 14 JUN 1921 TRANSMIT TO LONDON See Ser. Rpt. No. 17920. Glasgow 29 NOV 1921