

REPORT ON BOILERS.

No. 53000. WED. 18 DEC 1907

196 B

Received at London Office

Date of writing Report

When handed in at Local Office 17 DEC 1907

Port of Newcastle

No. in Survey held at Newcastle

Date, First Survey July 9th

Last Survey Dec 6th 1907

Reg. Book. 45 Ethel

(Number of Visits 13) Gross 278

Net 99

Built at Gole

By whom built Gole Shipbuilding Co

When built 1907

Lines made at Coatbridge NB By whom made W. V. Lidgerwood (272)

when made 1907

Boilers made at Newcastle By whom made Wallsend Slipway & Eng Co

when made 1907

Registered Horse Power 75.33 Owners G. Cohen

Port belonging to Fleetwood

WATER-TUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel J. Spencer & Sons Ltd

For record R. Total Heating Surface of Boilers 1258 sq ft Is forced draft fitted no. No. and Description of Boilers 1, 5, 8 Working Pressure 180 Tested by hydraulic pressure to 360. Date of test 31.7.07

of Certificate 7544. Can each boiler be worked separately Area of fire grate in each boiler 42 3/4 sq ft. No. and Description of Valves to each boiler two direct spring Area of each valve 4.9 sq ft. Pressure to which they are adjusted 185 lb

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

Least distance between boilers or uptakes and bunkers or woodwork 10" Mean dia. of boilers 13 feet. Length 10 feet.

Material of shell plates S Thickness 1/4 Range of tensile strength 29, 33. Are the shell plates welded or flanged ends

Description of riveting: cir. seams a + lap long. seams a. Butts Diameter of rivet holes in long. seams 1 1/2 Pitch of rivets 7 1/2

No. of plates or width of butt straps 15 1/2 Per centages of strength of longitudinal joint rivets 86.5 plate 85.8 Working pressure of shell by rules 181. Size of manhole in shell 16" x 12" Size of compensating ring 14" No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 39 5/8 Length of plain part top 6' 5" bottom 6' 0" Thickness of plates crown 3/4 bottom 1/4

Description of longitudinal joint weld. No. of strengthening rings 2 T. Working pressure of furnace by the rules 189. Combustion chamber

Material S Thickness: Sides 21/32 Back 21/32 Top 21/32 Bottom 1/8 Pitch of stays to ditto: Sides 9 x 8 3/4 Back 9 5/8 x 8 3/4

9 x 8 3/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 181 Material of stays S Diameter at smallest part 1.6" Area supported by each stay 82.4 Working pressure by rules 186 End plates in steam space: Material S Thickness 1 3/8

Pitch of stays 19 5/8 x 18 3/4 How are stays secured a. nuts Working pressure by rules 181. Material of stays S Diameter at smallest part 3.28"

Area supported by each stay 349.4 Working pressure by rules 182. Material of Front plates at bottom S Thickness 1" Material of

cover back plate S Thickness 5/8 Greatest pitch of stays 14 5/8 Working pressure of plate by rules 185 Diameter of tubes 3 1/2

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

water spaces 14" Working pressures by rules 223 lb. Girders to Chamber tops: Material S Depth and thickness of

order at centre 7 1/2 x 1 1/2 Length as per rule 27 1/2 Distance apart 9 Number and pitch of Stays in each 2 of 8 3/4

Working pressure by rules 189. 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

plates Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

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

Dates of Survey During progress of work in shops 1907 July 9, 11, 12, 15, 16, 24, 31. Is the approved plan of boiler forwarded herewith yes

while building During erection on board vessel Nov. 19, 20, 27, 29, Dec 6. Total No. of visits 13

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

built under Special Survey. Materials and workmanship good.

efficient.

The boiler fitted up on board tried under steam and found satisfactory

(Duplicate boilers on ss Rhoebe, ss Rhythmic) Leonard G. Skalleros.

Survey Fee ... £ ... When applied for, 19... Travelling Expenses (if any) £ ... When received, 19...

J. Y. Tindal Esq. Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

Committee's Minute TUES. 7 JAN 1908

Assigned See Minute on Gls. Rpt. to 25970

