

REPORT ON BOILERS

No. 73688
WED. OCT. 20 1920

Received at London Office

19 OCT 1920

Port of

NEWCASTLE-ON-TYNE

Writing Report

19

When handed in at Local Office

Survey held at South Shields

Date, First Survey 24th FebLast Survey 29th Sept 1920

on the S.S. "Grevorian"

(Number of Visits)

Gross 4598.78
Net 2845.20

Built at South Shields

By whom built J. Readhead & Sons Ltd

When built 1920

Made at South Shields

By whom made J. Readhead & Sons Ltd

When made 1920

Made at South Shields

By whom made J. Readhead & Sons Ltd

When made 1920

Horse Power

Owners Hain SS Co Ltd

Port belonging to H. Inc.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spencer & Sons Ltd.

Total Heating Surface of Boilers 1266.17 sq ft Is forced draft fitted No. No. and Description of

One single ended multitubular Working Pressure 90 lbs Tested by hydraulic pressure to 180 lbs Date of test 23/4/20

Certificate 9391 Can each boiler be worked separately Area of fire grate in each boiler 33 sq ft No. and Description of

26, 28, 29 valves to each boiler 2 Spring loaded Area of each valve 7.06 Pressure to which they are adjusted 93 lbs

They fitted with easing gear Yes In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler No

Least distance between boilers or uptakes and bunkers or woodwork 1' 6" Mean dia. of boilers 10'-9 3/4" Length 11'-0"

Material of shell plates Steel Thickness 2 1/32" Range of tensile strength 28/32 Are the shell plates welded or flanged No.

26/7/20 Description of riveting: cir. seams D.R. LAP long seams D.R. LAP Diameter of rivet holes in long seams 1 1/4" Pitch of rivets 4 3/8"

12/7/20 of plates or width of butt straps 5 1/2" Per centages of strength of longitudinal joint rivets 72.69% Working pressure of shell by plate 71.42%

14/20 22/95.8 lbs Size of manhole in shell 16" x 12" Size of compensating ring 8" x 2 1/32" No. and Description of Furnaces in each

2 Plain Material Steel Outside diameter 3'-2" Length of plain part top 7'-3 3/8" Thickness of plates crown 1 1/32" bottom 2 1/32"

Description of longitudinal joint S.R. LAP. No. of strengthening rings Working pressure of furnace by the rules 157.3% Combustion chamber

Material Steel Thickness: Sides 5/8" Back 5/8" Top 5/8" Bottom 2 1/32" Pitch of stays to ditto: Sides 10 1/2" x 10" Back 12" x 12"

12" x 10" If stays are fitted with nuts or riveted heads Anti Working pressure by rules 128.4% Material of stays Iron Area at

Smallest part 1.99 Area supported by each stay 144 sq in Working pressure by rules 93.7% End plates in steam space: Material Steel Thickness 7/8"

How are stays secured D. Nut + double Working pressure by rules 326% Material of stays Steel Area at smallest part 4.11

a supported by each stay 324 sq in Working pressure by rules 132% Material of Front plates at bottom Steel Thickness 2 3/32" Material of

over back plate Steel Thickness 2 3/32" Greatest pitch of stays 12" x 12" Working pressure of plate by rules 124% Diameter of tubes 3 1/4"

ch of tubes 4 3/8" x 4 3/8" Material of tube plates Steel Thickness: Front 2 3/32" Back 2 3/32" Mean pitch of stays 13 1/8" Pitch across wide

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

nder at centre 6" x 1 1/2" Length as per rule 2' 2" Distance apart 12" Number and pitch of Stays in each 2. 10"

Working pressure by rules 115.3% 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

ch 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

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

The foregoing is a correct description,

FOR JOHN READHEAD & SONS, LIMITED.

W. O. Newell

Manufacturer

Dates During progress of 24/2/20 8/3/20 26/3/20 23/4/20 Is the approved plan of boiler forwarded herewith

Survey while building During erection on board vessel 22/9/20 29/9/20

Total No. of visits 6.

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

constructed under special survey, the material and workmanship

of good quality it has been securely fitted on board in the

tween decks The boiler tested under hydraulic pressure and found

satisfactory

Survey Fee ... £ : : When applied for, 19

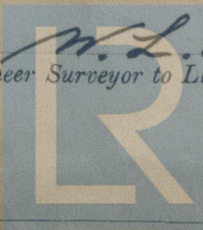
Travelling Expenses (if any) £ : : When received, 19

Committee's Minute

Assigned

TUE. OCT. 26 1920

Engineer Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation

W265-0116