

REPORT ON BOILERS.

No. 28268

Received at London Office

SAT. FEB. 11 1922

When handed in at Local Office 10 FEB 1922 Port of Sunderland

Survey held at Sunderland Date, First Survey 1st 04. 1920 Last Survey 9-2-1922
(Number of Visits 6) Gross 3338
Tons Net 2116

on the new donkey boiler for the S/S "GYP."
Built at Stockton By whom built Craig Taylor & Co When built 1905 - 6400.

Made at Middlesbrough By whom made Richardson Westgarth & Co Ltd. when made 1905

Made at Sunderland By whom made N.E. Marine Eng Co. Ltd. (No. 256) when made 1922

Horse Power Owners Preston Stm. Nav. Co. Ltd. (Becken & Co. Ltd.) Port belonging to London

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

Total Heating Surface of Boilers 837 sq ft Is forced draft fitted No. and Description of

one single ended marine Working Pressure 100 Tested by hydraulic pressure to 200 Date of test 2-2-22

Artificate 3790 Can each boiler be worked separately Area of fire grate in each boiler 27 sq ft No. and Description of

valves to each boiler two, direct opening Area of each valve 4.9 sq ft Pressure to which they are adjusted 100 lbs sq in

fitted with easing gear yes. In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler no.

Distance between boilers or uptakes and bunkers or woodwork 16" Mean dia. of boilers 10'-0" Length 10'-0"

Material of shell plates steel Thickness 9/16" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no

Material of riveting: cir. seams WR long. seams DBS. DR Diameter of rivet holes in long. seams 29/32" Pitch of rivets 5 3/16"

Material of butt straps 9 3/4" Per centages of strength of longitudinal joint rivets 99 Working pressure of shell by

plate 82.5 Size of manhole in shell 16" x 12" Size of compensating ring 2'-10" x 2'-6" x 3/4" No. and Description of Furnaces in each

one Inouson Material steel Outside diameter 2'-11 3/4" Length of plain part top Thickness of plates crown 3/8" bottom 3/8"

Material of longitudinal joint welded No. of strengthening rings Working pressure of furnace by the rules 140 Combustion chamber

Material steel Thickness: Sides 21/32" Back 5/8" Top 21/32" Bottom 21/32" Pitch of stays to ditto: Sides 13" x 9" Back 11 1/2" x 11 1/2"

If stays are fitted with nuts or riveted heads nuts Working pressure by rules 101 Material of stays steel area Diameter at

top 2.03 Area supported by each stay 1570" Working pressure by rules 116 End plates in steam space: Material steel Thickness 3/4"

Material of stays steel area Diameter at smallest part 2.765" How are stays secured AN&W Working pressure by rules 102

ported by each stay 2520" Working pressure by rules 114 Material of Front plates at bottom steel Thickness 3/4" Material of

Material of plate steel Thickness 3/4" Greatest pitch of stays 15 1/2" x 11 1/2" Working pressure of plate by rules 104 Diameter of tubes 3/4"

Material of tube plates steel Thickness: Front 3/4" Back 21/32" Mean pitch of stays 10 1/4" Pitch across wide

Material of tubes 14 1/4" Working pressures by rules 143 Girders to Chamber tops: Material steel Depth and thickness of

entre 2 @ 7 1/2" x 3/4" Length as per rule 30 1/4" Distance apart 13" Number and pitch of Stays in each 2 @ 9"

Working pressure by rules 107 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked

Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

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

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

The foregoing is a correct description,

THE NORTH EASTERN MARINE ENGINEERING CO. LTD.

Manufacturer.

During progress of work in shops - 1920. Nov. 1. 30. Dec. 9. 21. Jan. 26. 22. Feb. 2. 9 Is the approved plan of boiler forwarded herewith yes.

During erection on board vessel - - - Total No. of visits 6

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

Material and workmanship are good. Boiler has been constructed under special survey and has been sent to S. Shields to be fitted on vessel.

Fee ... £ 5 : 12 : When applied for 10 FEB 1922

Printing Expenses (if any) £ : : When received 28/2/22

Advised London 10/2/22 S. Davis.

Engineer Surveyor to Lloyd's Register of British and Foreign Shipping.

FRI. MAR. 24 1922

Boiler's Minute



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