

Rpt. 5a.

## REPORT ON BOILERS

No. 27717

WED. FEB. 4-1920

Received at London Office

Date of writing Report

191

When handed in at Local Office

- 3 FEB 1920

Port of SunderlandNo. in Survey held at Sunderland

Date, First Survey

24 Nov '19 Last Survey

12 Jan'y 1920

Reg. Book.

(Number of Visits)

Gross

on the boilers for the

Tons

Master

Built at NewcastleBy whom built Wood & Skinner & Co. 218When built 1920

Engines made at

By whom made

When made

Boilers made at SunderlandBy whom made North Eastern Marine Engineering Co. (11-2443)When made 1920

Registered Horse Power

Owners

Port belonging to

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel John Spence & Sons Ltd.(Letter for record S) Total Heating Surface of Boilers 2900 sq ft Is forced draft fitted no No. and Description ofBoilers Two single ended marine Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 12-1-20No. of Certificate 3648 Can each boiler be worked separately no Area of fire grate in each boiler 36.60 sq ft No. and Description ofsafety valves to each boiler no Area of each valve no Pressure to which they are adjusted noAre they fitted with easing gear no In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler noSmallest distance between boilers or uptakes and bunkers or woodwork no Mean dia. of boilers 12'-9" Length 10'-6"Material of shell plates steel Thickness 1 1/2" Range of tensile strength 28-32 tons Are the shell plates welded or flanged noDescrip. of riveting: cir. seams DR long. seams DRS. TR Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 7 3/8"Lap of plates or width of butt straps 1 3/8" Per centages of strength of longitudinal joint rivets 86.6 Working pressure of shell by plate 85.59rules 181 Size of manhole in shell 16"x12" Size of compensating ring flanged No. and Description of Furnaces in each boiler two DeightonMaterial S Outside diameter 3'-11 1/2" Length of plain part top Thickness of plates bottom 9 1/16"Description of longitudinal joint welded No. of strengthening rings no Working pressure of furnace by the rules 185 Combustion chamberplates: Material steel Thickness: Sides 2 3/32" Back 2 3/32" Top 2 3/32" Bottom 1" Pitch of stays to ditto: Sides 10 1/2"x9 3/8" Back 10 5/8"x9 1/4"Top 10 1/2"x9 3/8" If stays are fitted with nuts or riveted heads none Working pressure by rules 180 Material of stays steel Area atsmallest part 2.030" Area supported by each stay 980" Working pressure by rules 186 End plates in steam space: Material S Thickness 1 3/8"Pitch of stays 18 1/4"x25 1/2" How are stays secured DN & W Working pressure by rules 182 Material of stays steel Area at smallest part 8.294"Area supported by each stay 4650" Working pressure by rules 185 Material of Front plates at bottom steel Thickness 1" Material ofLower back plate steel Thickness 2 3/32" Greatest pitch of stays 14 1/2"x9 1/4" Working pressure of plate by rules 192 Diameter of tubes 3 1/4"Pitch of tubes 4 1/2"x4 1/2" Material of tube plates steel Thickness: Front 1" Back 3/4" Mean pitch of stays 11 1/4" Pitch across widewater spaces 14 1/2" Working pressures by rules 183 Girders to Chamber tops: Material steel Depth and thickness ofgirder at centre 2@9"x1 1/8" Length as per rule 2'-9" Distance apart 10 1/2" Number and pitch of Stays in each 2@9 3/8"Working pressure by rules 184 Steam dome: description of joint to shell none % of strength of joint noDiameter no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes noPitch of rivets no Working pressure of shell by rules no Crown plates no Thickness no How stayed noSUPERHEATER. Type no Date of Approval of Plan no Tested by Hydraulic Pressure to noDate of Test no Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler noDiameter of Safety Valve no Pressure to which each is adjusted no Is Easing Gear fitted no

The foregoing is a correct description,

FOR THE NORTH EASTERN MARINE ENGINEERING CO. LTD.

W. D. New Manufacturer.

Dates of Survey	During progress of work in shops - -	1919 Nov 24, 26. Dec 29, 31. Jan 8, 12	Is the approved plan of boiler forwarded herewith	<u>yes</u>
while building	During erection on board vessel - - -	<u>See Newcastle Report 73500</u>	Total No. of visits	<u>3</u>

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

The materials and workmanship are good.  
 The boilers have been constructed under special survey and are being despatched to the R. Tyne to be fitted in the vessel. Surveyors advised at that port.

Survey Fee	£ 9 : 13 :	When applied for, <u>3 FEB 1920</u>
Travelling Expenses (if any) £	:	When received, <u>191</u>

TUE. SEP. 14 1920

Committee's Minute

Assigned

Engineer Surveyor to Lloyd's Register of Shipping.

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