

REPORT ON BOILERS.

No. 46139

Received at London Office

24 NOV 1926

Date of writing Report *18th Oct 1926* When handed in at Local Office *21-10-1926* Port of *Glasgow*

No. in Reg. Book. *Surrey held at Renfrew* Date, First Survey *13th April* Last Survey *15th Oct 1926*

on the *non-propelling bucket dredger "Telford"* (Number of Visits *30*) Tons { Gross *424* Net *424*

Master *Renfrew* Built at *Renfrew* By whom built *Lobnitz & Co* Yard No. *918* When built *1926*

Engines made at *Renfrew* By whom made *Lobnitz & Co* Engine No. *918* When made *1926*

Boilers made at *Renfrew* By whom made *Lobnitz & Co* Boiler No. *918* When made *1926*

Nominal Horse Power *London & N. E. Ry Co* Port belonging to *Hull*

MULTITUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel *W. Beardmore & Co. Ld.* (Letter for Record *S.*)

Total Heating Surface of Boilers *1404 sq. ft.* Is forced draught fitted *no* Coal or Oil fired *no*

No. and Description of Boilers *One - multitubular* Working Pressure *120*

Tested by hydraulic pressure to *230* Date of test *13-7-26* No. of Certificate *17179* Can each boiler be worked separately *yes*

Area of Firegrate in each Boiler *47 sq. ft.* No. and Description of safety valves to each boiler *2 - spring loaded*

Area of each set of valves per boiler { per Rule *6.5* as fitted *6.5* Pressure to which they are adjusted *125* 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 *Will clear* Is oil fuel carried in the double bottom under boilers *no*

Smallest distance between shell of boiler and tank top plating *Open floors* Is the bottom of the boiler insulated *no*

Largest internal dia. of boilers *12'-9"* Length *10'-0"* Shell plates: Material *S* Tensile strength *28-32*

Thickness *27/32"* Are the shell plates welded or flanged *no* Description of riveting: circ. seams { end *T.R.* inter. *none*

Long. seams *T.R. & B.S.* Diameter of rivet holes in { circ. seams *1"* long. seams *1"* Pitch of rivets { *3 3/4"* *6 1/4"*

Percentage of strength of circ. end seams { plate *69* rivets *47* Percentage of strength of circ. intermediate seam { plate *84* rivets *91.5*

Percentage of strength of longitudinal joint { plate *84* rivets *90* combined *90* Working pressure of shell by Rules *131*

Thickness of butt straps { outer *1 1/16"* inner *13/16"* No. and Description of Furnaces in each Boiler *2 - Deighton*

Material *S* Tensile strength *26-30* Smallest outside diameter *46.375"*

Length of plain part { top *7/16"* bottom *7/16"* Description of longitudinal joint *weld*

Dimensions of stiffening rings on furnace or c.e. bottom *none* Working pressure of furnace by Rules *134*

plates in steam space: Material *S* Tensile strength *26-30* Thickness *3/4"* Pitch of stays *15" x 13 1/2"*

are stays secured *T.N.W.* Working pressure by Rules *125*

oe plates: Material { front *S* back *S* Tensile strength { *26-30* *26-30* Thickness { *3/4"* *3/4"*

on pitch of stay tubes in nests *9.2"* Pitch across wide water spaces *15"* Working pressure { front *128* back *128*

adders to combustion chamber tops: Material *S* Tensile strength *28-32* Depth and thickness of girder

centre *6 1/2" x 1 1/8"* Length as per Rule *27"* Distance apart *7 1/2"* No. and pitch of stays

each *2-8 1/2" x 7 1/2"* Working pressure by Rules *150* Combustion chamber plates: Material *S*

nsile strength *26-30* Thickness: Sides *1/2"* Back *1/2"* Top *1/2"* Bottom *7/8"*

ch of stays to ditto: Sides *8 1/2" x 8"* Back *8" x 8"* Top *8 1/2" x 7 1/2"* Are stays fitted with nuts or riveted over *nuts*

orking pressure by Rules *124* Front plate at bottom: Material *S* Tensile strength *26-30*

ickness *3/4"* Lower back plate: Material *S* Tensile strength *26-30* Thickness *1 1/16"*

itch of stays at wide water space *13 1/2" x 8"* Are stays fitted with nuts or riveted over *nuts*

orking Pressure *128* Main stays: Material *S* Tensile strength *28-32*

Diameter { At body of stay, *2 1/4"* No. of threads per inch *6* Area supported by each stay *15" x 13 1/2"*

Working pressure by Rules *172* Screw stays: Material *S* Tensile strength *26-30*

Diameter { At turned off part, *1 1/2"* No. of threads per inch *9* Area supported by each stay *8" x 8 1/2"*

Working pressure by Rules **185** Are the stays drilled at the outer ends **no** Margin stays: Diameter { At turned off part, or Over threads **1 3/4** ✓
No. of threads per inch **9** Area supported by each stay **86** ✓ Working pressure by Rules **210**
Tubes: Material **Steel** ✓ External diameter { Plain **3 1/4** ✓ Stay **3 1/4** ✓ Thickness { **10 B.W.G.** ✓ **5/16** ✓ No. of threads per inch **9** ✓
Pitch of tubes **4 1/4" x 4 1/4"** ✓ Working pressure by Rules **130** Manhole compensation: Size of opening in shell plate **19" x 23"** ✓ Section of compensating ring **41" x 31" x 27/32"** No. of rivets and diameter of rivet holes **59 x 1"**
Outer row rivet pitch at ends **5 1/2"** ✓ Depth of flange if manhole flanged **3"** ✓ Steam Dome: Material **none**
Tensile strength _____ Thickness of shell _____ Description of longitudinal joint _____
Diameter of rivet holes _____ Pitch of rivets _____ Percentage of strength of joint { Plate Rivets _____
Internal diameter _____ Working pressure by Rules _____ Thickness of crown _____ No. and diameter of stays _____
Inner radius of crown _____ Working pressure by Rules _____
How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes and pitch of rivets in outer row in dome connection to shell _____

Type of Superheater _____ Manufacturers of { Tubes _____ Steel castings _____
Number of elements _____ Material of tubes _____ Internal diameter and thickness of tubes _____
Material of headers _____ Tensile strength _____ Thickness _____ Can the superheater be shut off and the boiler be worked separately _____
Is a safety valve fitted to every part of the superheater which can be shut off from the boiler _____
Area of each safety valve _____ Are the safety valves fitted with easing gear _____ Working pressure as per Rules _____
Pressure to which the safety valves are adjusted _____ Hydraulic test pressure: tubes _____ castings _____ and after assembly in place _____ Are drain cocks or valves fitted to free the superheater from water where necessary _____
Have all the requirements of Sections 14 to 23 inclusive for boilers been complied with _____

FOR LOBNITZ & Co., LIMITED
The foregoing is a correct description,

H. O. Bedford Director Manufacturer.

Dates of Survey { During progress of work in shops - - - **1926 Apr 13-20-28 May 11-18-21-26-28** Are the approved plans of boiler and superheater forwarded herewith **yes** (If not state date of approval.)
while building { During erection on board vessel - - - **June 14-15-18-23-29 July 6-13 Aug 11-14-24-25-27**
Sep 8-9-14-21-29 Oct 1-5-13-15 Total No. of visits **30**

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) **This boiler has been built under special survey, in accordance with the approved plan, and the Society's Rules & requirements, the materials and workmanship are good, the boiler has been securely fitted on board, and in my opinion is eligible for the record + N. B. 10.26.**

The safety valves were adjusted under steam to 125 lbs. Thickness washers 3/8".
The sea connections were examined, the feed arrangements for the boiler, & the bilges were tested under steam.

It is submitted that this vessel is eligible for THE RECORD. + NB 10.26.

Survey Fee ... £ **9 : 8 : 0**
Fitting out **2 : 2 : 0**
Travelling Expenses (if any) £ _____

When applied for, **22 NOV 1926** 192
When received, **26.11.** 192

120 16.
Jas. Cairns,
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 23 NOV 1926**

Assigned **+ N.B. 10.26**



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