

REPORT ON BOILERS.

No. 33440.

MON. DEC. 29. 1913

Date of writing Report

191

When handed in at Local Office

20.12.1913 Port of Glasgow

Date, First Survey

21.5.13.

Last Survey

9.12.

1913.

No. in Survey held at
Reg. Book.

Renfrew

on the Non propelling Sand Pump Dredger.

(Number of Vessels

18.)

Gross

Tons

Net

When built 1913

Master

Built at

Renfrew

By whom built

Lobnitz & Co. Ltd

When made

Engines made at

By whom made

Boilers made at

Renfrew

By whom made

Lobnitz & Co. Ltd (No 113)

When made 1913.

Registered Horse Power

Owners

Karachi Port Trust

Port belonging to Karachi

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—Manufacturers of Steel Steel Co of Scotland

(Letter for record \$) Total Heating Surface of Boilers 5400 sq ft Is forced draft fitted yes No. and Description of

Boilers Four Single ended Working Pressure 160 lbs Tested by hydraulic pressure to 320 lbs Date of test 20.11.13.

No. of Certificate 12401 Can each boiler be worked separately yes Area of fire grate in each boiler 50 sq ft No. and Description of

safety valves to each boiler 2 direct spring Area of each valve 5.94 sq in Pressure to which they are adjusted not adjusted

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

Smallest distance between boilers or uptakes and bunkers or woodwork — Mean dia. of boilers 13'-3" Length 10'-0"

Material of shell plates steel Thickness 1 3/32 Range of tensile strength 28/32 tons Are the shell plates welded or flanged no

Descrip. of riveting: cir. seams DR lap long. seams DBS TR Diameter of rivet holes in long. seams 1 7/16 Pitch of rivets 8"

Lap of plates or width of butt straps 1 1/2 Per centages of strength of longitudinal joint plate 85.2 Working pressure of shell by

rules 178 lbs Size of manhole in shell 17 1/2 x 21 1/2 Size of compensating ring 32 x 28 x 1 1/2 flange No. and Description of Furnaces in each

boiler 3 Brighton Material steel Outside diameter 40" Length of plain part top — Thickness of plates crown 1 1/2 bottom 1 1/2

Description of longitudinal joint welded No. of strengthening rings — Working pressure of furnace by the rules 188 Combustion chamber

plates: Material steel Thickness: Sides 7/16 Back 7/16 Top 7/16 Bottom 7/8 Pitch of stays to ditto: Sides 8 x 1/2 Back 8 x 1/2

Top 7 1/2 x 7 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182 Material of stays steel Diameter at

smallest part 1 1/4 Area supported by each stay 60 Working pressure by rules 188 End plates in steam space: Material steel Thickness 1 1/2

Pitch of stays 16 x 16 How are stays secured DN + W Working pressure by rules 162 Material of stays steel Diameter at smallest part 4 1/2

Area supported by each stay 256 Working pressure by rules 194 Material of Front plates at bottom steel Thickness 1 3/16 Material of

Lower back plate steel Thickness 1 3/16 Greatest pitch of stays 15 1/2 Working pressure of plate by rules 149 Diameter of tubes 3 1/2

Pitch of tubes 4 3/4 x 4 3/4 Material of tube plates steel Thickness: Front 1 3/16 Back 1 3/16 Mean pitch of stays 9 1/2 Pitch across wide

water spaces 14 1/4 Working pressures by rules 210 Girders to Chamber tops: Material steel Depth and thickness of

girder at centre 2 plates 6 1/2 x 1 1/2 Length as per rule 27 Distance apart 7 1/2 Number and pitch of Stays in each 2 of 7 1/2

Working pressure by rules 164 Superheater or Steam chest: how connected to boiler none 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

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

If 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 —

The foregoing is a correct description,

FOR LOBNITZ & CO., LIMITED, Manufacturer.

J. W. Inteco.

Director

Dates of Survey
During progress of work in shops —
while building —
board vessel —

1913 May 21 June 12-27 July 7-13.

Is the approved plan of boiler forwarded herewith yes

Aug. 18-28 Sept 11-19 Oct. 2-8-15-20 Nov 3-8-17-20 Dec. 9.

Total No. of visits 18.

GENERAL REMARKS

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

These boilers have been constructed under special survey in accordance with the rules and approved plan enclosed and with copper main steam pipes have been tested to 320 lbs. Materials & workmanship are good. Vessel is being shipped to Karachi in pieces. This vessel will be eligible in my opinion for the record + NB with date when the boilers have been fitted on board and safety valves adjusted

Survey Fee ... £ 14 : 8 :

When applied for

20.12.1913

Travelling Expenses (if any) £ :

When received

26.12.1913

Harry Clarke

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

Committee's Minute

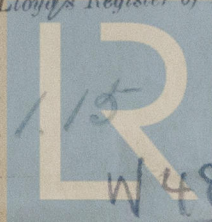
GLASGOW 23 DEC. 1913

Assigned

Deferred for completion

TUE. FEB. -9. 1915

+ NB 1/15



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