

## REPORT ON BOILERS.

No. 18731.

30 OCT 1936

Received at London Office

Date of writing Report

192

When handed in at Local Office

19-10-1936

Port of Aberdeen.

No. in  
Reg. Book.

Survey held at Aberdeen.

Date, First Survey

18th Aug. 1936 Last Survey 14th October 1936.

on the Stationery bucket dredger (not named).

(Number of Visits 3)

Gross  
Tons  
Net

Master

Built at Sheddrecht

By whom built

Werf der Klop

Yard No. 520

When built 1936.

Non Propelling  
Engines made at

Aberdeen.

By whom made

A. Hall &amp; Co. Ltd

Engine No. 364

When made 1936

Boilers made at

Glasgow

By whom made

D. Rowan &amp; Co. Ltd.

Boiler No. 420.

When made 1936

Nominal Horse Power

Owners

James Dredging Co.

Port belonging to

MULTITUBULAR BOILERS ~~MAIN, AUXILIARY, OR~~ DONKEY.

Manufacturers of Steel

(Letter for Record

Total Heating Surface of Boilers

Is forced draught fitted

No

Coal or Oil fired Oil

No. and Description of Boilers

One single ended

Working Pressure

195 lb.

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of Firegrate in each Boiler

No. and Description of safety valves to each boiler

2 Direct Spring loaded

Area of each set of valves per boiler

per Rule  
as fitted

Pressure to which they are adjusted

195 lb.

Are they fitted with easing gear

Yes.

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

2' 0"

Is oil fuel carried in the double bottom under boilers

No

Smallest distance between shell of boiler and tank top plating

No tank

Is the bottom of the boiler insulated

No.

Largest internal dia. of boilers

Length

Shell plates: Material

Tensile strength

Thickness

Are the shell plates welded or flanged

Description of riveting: circ. seams

long. seams

Diameter of rivet holes in

circ. seams  
long. seams

Pitch of rivets

Percentage of strength of circ. end seams

plate  
rivets

Percentage of strength of circ. intermediate seam

plate  
rivets

Percentage of strength of longitudinal joint

plate  
rivets  
combined

Working pressure of shell by Rules

Thickness of butt straps

outer  
inner

No. and Description of Furnaces in each Boiler

Material

Tensile strength

Smallest outside diameter

Length of plain part

top  
bottom

Thickness of plates

crown  
bottom

Description of longitudinal joint

Dimensions of stiffening rings on furnace or c.c. bottom

Working pressure of furnace by Rules

End plates in steam space: Material

Tensile strength

Thickness

Pitch of stays

How are stays secured

Working pressure by Rules

Tube plates: Material

front  
back

Tensile strength

Thickness

Mean pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front  
back

Girders to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

at centre

Length as per Rule

Distance apart

No. and pitch of stays

in each

Working pressure by Rules

Combustion chamber plates: Material

Tensile strength

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

Working pressure by Rules

Front plate at bottom: Material

Tensile strength

Thickness

Lower back plate: Material

Tensile strength

Thickness

Pitch of stays at wide water space

Are stays fitted with nuts or riveted over

Working Pressure

Main stays: Material

Tensile strength

Diameter

At body of stay,  
or  
Over threads

No. of threads per inch

Area supported by each stay

Working pressure by Rules

Screw stays: Material

Tensile strength

Diameter

At turned off part,  
or  
Over threads

No. of threads per inch

Area supported by each stay

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Lloyd's Register  
Foundation

W425-0217

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Working pressure by Rules Are the stays drilled at the outer ends Margin stays: Diameter { At turned off part, or Over threads }  
 No. of threads per inch Area supported by each stay Working pressure by Rules  
**Tubes:** Material External diameter { Plain Stay } Thickness { No. of threads per inch }  
 Pitch of tubes Working pressure by Rules **Manhole compensation:** Size of opening in shell plate Section of compensating ring No. of rivets and diameter of rivet holes  
 Outer row rivet pitch at ends Depth of flange if manhole flanged **Steam Dome:** Material  
 Tensile strength Thickness of shell RPT 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  
 How connected to shell Inner radius of crown Working pressure by Rules  
 of rivets in outer row in dome connection to shell Size of doubling plate under dome Diameter of rivet holes and pitch

**Type of Superheater** NONE 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

The foregoing is a correct description,

Manufacturer.

Dates of Survey { During progress of work in shops - - - Aug 18, 1936 } Are the approved plans of boiler and superheater forwarded herewith **yes.**  
 while building { During erection on board vessel - - - Sep. 8, Oct. 14, 1936 } (If not state date of approval.)  
 Total No. of visits 3

**GENERAL REMARKS** (State quality of workmanship, opinions as to class, &c.) This boiler has been securely fitted on board the vessel. The safety valves have been adjusted under steam as stated, tried for accumulation and found satisfactory. The materials and workmanship are good. The boiler is eligible, in my opinion, to be classed in the Register Book, and to have record of D.B.

See also Glasgow Rpt W: 54064. attached.

Survey Fee ... £ : : When applied for, 192  
 Travelling Expenses (if any) £ ✓ : : When received, 192  
 - Changed on Mch. Rpt attached.

*J. A. May*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 22 OCT 1937

Assigned See other F.E. report

