

REPORT ON BOILERS.

No. 42004.

Received at London Office

23 DEC 1933

Writing Report

19/12

1933. When handed in at Local Office

19/12

1933

Port of Oslo

nsation: Size of o

Survey held at Oslo

Date, First Survey

Last Survey

19

on the

motor vessel "PIONER"

(Number of Visits)

Gross 1767
Net 1015

Built at

Rødby

By whom built

Ark. Rødby, Havn, Jernv.

Yard No.

When built

1920

No. and d

made at

Shedeholm

By whom made

Arkib. Alas, Sien

Engine No.

When made

made at

Oslo

By whom made

Kroner, Breg

Boiler No.

When made

1931

Horse Power

Owners

G. Pioner

Port belonging to

Oslo

whole oil extractors.

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

Manufacturers of Steel

Approved marks

(Letter for Record)

Heating Surface of Boilers

Is forced draught fitted

Coal or Oil fired

Description of Boilers

2 whole oil extractors

Working Pressure

60 lb.

Hydraulic test

by hydraulic pressure to

120

Date of test

1/2-1/2-31

No. of Certificate

Can each boiler be worked separately

Firegrate in each Boiler

No. and Description of safety valves to each boiler

1 off single spring loaded 1" dia

each set of valves per boiler

per Rule

as fitted

0.44 sq inch

Pressure to which they are adjusted

Are they fitted with easing gear

of donkey boilers, state whether steam from main boilers can enter the donkey boiler

distance between boilers or uptakes and bunkers or woodwork

Is oil fuel carried in the double bottom under boilers

distance between shell of boiler and tank top plating

Is the bottom of the boiler insulated

internal dia. of boilers

2250 mm.

Length

2600 mm.

Shell plates: Material

steel

Tensile strength

28-35

Are the shell plates welded or flanged

and flanged

Description of riveting: circ. seams

end simple

Diameter of rivet holes in

circ. seams

20 mm.

long. seams

Pitch of rivets

52.2 mm.

Percentage of strength of circ. end seams

plate

66.7

rivets

44.4

Percentage of strength of circ. intermediate seam

plate

75.2

Percentage of strength of longitudinal joint

plate

75.2

rivets

combined

Working pressure of shell by Rules

5.6 kg/cm²

No. and Description of Furnaces in each Boiler

Tensile strength

Smallest outside diameter

Thickness of plates

crown

bottom

Description of longitudinal joint

Working pressure of furnace by Rules

Material

steel

Tensile strength

26-30

Thickness

Top 20 mm.

Pitch of stays

Working pressure by Rules

Material

front

back

Tensile strength

Thickness

Pitch of stay tubes in nests

Pitch across wide water spaces

Working pressure

to combustion chamber tops: Material

Tensile strength

Depth and thickness of girder

Length as per Rule

Distance apart

No. and pitch of stays

Working pressure by Rules

Combustion chamber plates: Material

strength

Thickness: Sides

Back

Top

Bottom

stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

pressure by Rules

Front plate at bottom: Material

Tensile strength

Lower back plate: Material

Tensile strength

Thickness

stays at wide water space

Are stays fitted with nuts or riveted over

Pressure

Main stays: Material

Tensile strength

At body of stay,

Over threads

No. of threads per inch

Area supported by each stay

pressure by Rules

Screw stays: Material

Tensile strength

At turned off part,

Over threads

No. of threads per inch

Area supported by each stay

W473-0133

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Foundation

5-A. 4200A.

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 Thickness No. of threads per inch } Stay

Pitch of tubes Working pressure by Rules Manhole compensation: Size of opening

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 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 rivets

stays Inner radius of crown Working pressure by Rules

How connected to shell Size of doubling plate under dome Diameter of rivet holes at 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 from the boiler

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

Rules Pressure to which the safety valves are adjusted Hydraulic test

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 22 inclusive for boilers been complied with

The foregoing is a correct description, of donkey engine, etc.

Dates of Survey { During progress of work in shops - - } 7/2, 10/2, 31.
while building { During erection on board vessel - - - }

Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) 4.7.1930.

Total No. of visits 2

Is this Boiler a duplicate of a previous case Yes

If so, state Vessel's name and Report No. "Sant Ego", R.p. no 4

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

These whole oil extractors were constructed in accordance with the approved plans. The extractors examined during construction and tested hydraulic pressure to 120 lbs per sq inch and found in order. The workmanship found good. The extractors were marked:

Am off:

LLOYDS TEST

120 LBS.

W.P. 60 LBS.

7.2.31. P.E.

Am off:

LLOYDS TEST.

120 LBS.

W.P. 60 LBS.

10.2.31. P.B.R.

Survey Fee ... £ : : When applied for, 19
Travelling Expenses (if any) £ : : When received, 19

Bergin R.
Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUE 2 JAN 1934 TUE. 1 JAN 1935

Assigned

TUE. 21 JUL 1935

see Oslo. 4207

FRI 30 APR 1937

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