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REPORT ON BOILERS.

No. 4200 a.

Received at London Office 23 DEC 1933

Writing Report 19/12 1933. When handed in at Local Office 19/12 1933 Port of Oslo

Survey held at Oslo Date, First Survey Last Survey 19

on the motor vessel "PIONER" (Number of Visits) Tons {Gross 1767 Net 1015

Built at Risby By whom built Akt. Risby Leasing Yard No. When built 1920

made at Stockholm By whom made Aktieb. Atlas Siewe Engine No. When made

made at Oslo By whom made Kvaerner Bryg Boiler No. When made 1931

Horse Power Owners Gs. 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 lbs. ✓

Hydraulic test by hydraulic pressure to 120 Date of test 7/2-1/2-31 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 inter. 52.2 mm. Pitch of rivets {66 mm. Double riveted Diameter of rivet holes in {circ. seams 20 mm. ✓ long. seams 20 mm. ✓

Percentage of strength of circ. end seams {plate 66.7 rivets 44.4 Percentage of strength of circ. intermediate seam {plate 75.2 rivets 69.5 Working pressure of shell by Rules 5.6 kg/cm².

Working pressure of longitudinal joint {plate 75.2 rivets 69.5 combined

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

plates in steam space: Material steel Tensile strength 26-30 Thickness Top 20 mm. ✓ bot. 17 mm. ✓ Pitch of stays

Working pressure by Rules

Material {front back Tensile strength Thickness {

Pitch across wide water spaces Working pressure {front back

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

Thickness: Sides Back Top Bottom

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

Lower back plate: Material Tensile strength Thickness

stays at wide water space Are stays fitted with nuts or riveted over

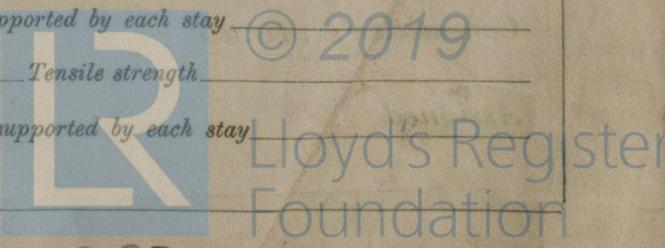
Pressure Main stays: Material Tensile strength

At body of stay, or Over threads No. of threads per inch Area supported by each stay

pressure by Rules Screw stays: Material Tensile strength

At turned off part, or Over threads No. of threads per inch Area supported by each stay

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REPORT ON BOILERS

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

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

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 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,

Dates of Survey During progress of work in shops - - - 7/2, 10/2, 31. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) 4.7.1930.

while building During erection on board vessel - - - 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 Tago", Rp. 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.

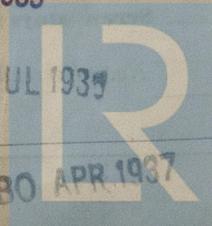
Survey Fee £	:	:	When applied for,	19
Travelling Expenses (if any) £	:	:	When received,	19

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

Assigned

see Oslo. 4207

TUE. 21 JUL 1935



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FRI 30 APR 1937

Bergin R
Engineer Surveyor to Lloyd's Register of