

REPORT ON BOILERS.

No. 4201.

23 DEC 1933

Received at London Office

Reporting 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 "PIONEER" (Number of Visits) Gross 1767 Tons Net 1015
 Built at Rødøy By whom built AM. Rødøy Handels Jernv. Yard No. When built 1920
 No. and dia. made at Stockholm By whom made Aktieb. Ales Diesel Engine No. When made
 made at Oslo By whom made Kvaerner Bryg Boiler No. When made 1931
 Horse Power Owners A/S. Pioneer Port belonging to Oslo

Press Boilers

TUBULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

superheater be shut
 the boiler structure of Steel Approved marks. (Letter for Record)
 Working pressure of Surface of Boilers Is forced draught fitted Coal or Oil fired
 Hydraulic test Description of Boilers 8 press boilers Working Pressure 60 lbs.
 drain cocks or valves hydraulic pressure to 120 Date of test 8/11/29 No. of Certificate Can each boiler be worked separately
 Firegrate in each Boiler No. and Description of safety valves to each boiler
 each set of valves per boiler {per Rule as fitted Pressure to which they are adjusted Are they fitted with easing gear
 description, of donkey boilers, state whether steam from main boilers can enter the donkey boiler
 Main 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 2100 mm Length 3050 mm Shell plates: Material steel Tensile strength 28-35
 10 mm Are the shell plates welded or flanged end pl. flanged Description of riveting: circ. seams {end single inter. 48.5 mm.
 ms Double r. Diameter of rivet holes in {circ. seams 13/16 206 mm long. seams 13/16 Pitch of rivets {plate 67 - - rivets
 , Rp. no 4 ge. of strength of circ. end seams {plate 57 rivets 56 Percentage of strength of circ. intermediate seam {plate rivets
 under length of strength of longitudinal joint {plate 71 69.2 rivets 126 81.5 Working pressure of shell by Rules 86 lbs.
 and tested of butt straps {outer inner No. and Description of Furnaces in each Boiler
 Tensile strength Smallest outside diameter
 plain part {top bottom Thickness of plates {crown bottom Description of longitudinal joint
 ns of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules
 es in steam space: Material steel Tensile strength 26-30 Thickness top 18 mm half 15 mm Pitch of stays
 stays secured Working pressure by Rules
 es: Material {front back Tensile strength Thickness
 ch of stay tubes in nests Pitch across wide water spaces Working pressure {front back
 o 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
 length 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, 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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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 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 under 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 22 inclusive for boilers been complied with

The foregoing is a correct description,

Manufacturer

Dates of Survey { During progress of work in shops - - 8/11 & 11/11.29. Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.)

while building { During erection on board vessel - - - Total No. of visits 2

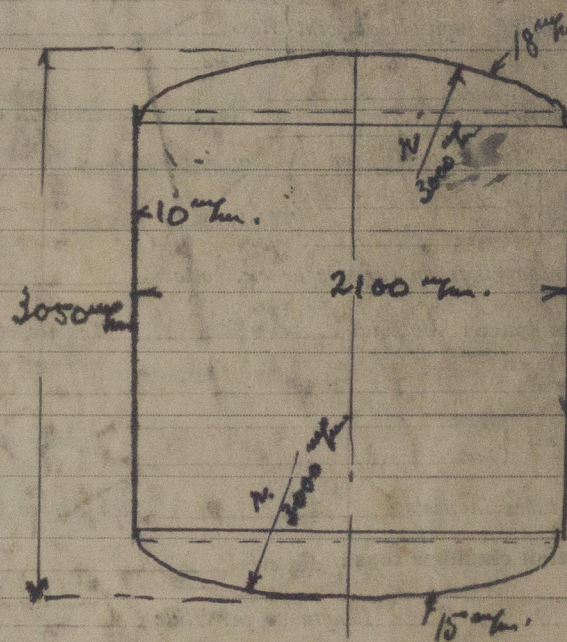
Is this Boiler a duplicate of a previous case If so, state Vessel's name and Report No.

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

These pressure boilers were examined during construction and tested by hydraulic pressure to 120 lbs and found in order. The workmanship found good. The boilers marked.

4 aft:
LLOYDSTEST
120 LBS.
W.P. 60 LBS.
8.11.29.
P.B.R.

4 aft:
LLOYDSTEST
120 LBS.
W.P. 60 LBS.
11.11.29.
P.E.



Radius: Circ. beam: single riv. 3/4 in. dia. 48.5 in. 67 in.

Survey Fee ... £ : : When applied for, 19

Travelling Expenses (if any) £ : : When received, 19

Pergin Roe

Engineer Surveyor to Lloyd's Register of Shipping.

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

see Octo 4207 TUE. 21 JAN 1936

30 APR 1937



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