

# REPORT ON BOILERS.

No. 4200

Received at London Office 23 DEC 1933

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

in Survey held at Oslo Date, First Survey Last Survey 19

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

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

Engines made at Stockholm By whom made Aktie. Ales Diesel Engine No. When made

Boilers made at Oslo By whom made Kvarner Bmy Boiler No. When made 1931

Indicated Horse Power Owners a/s. Pioner Port belonging to Oslo

Rating whole oil boilers

LATTICULAR BOILERS—MAIN, AUXILIARY, OR DONKEY.

MAIN

Manufacturers of Steel Approved works (Letter for Record )

Heating Surface of Boilers Is forced draught fitted Coal or Oil fired

Description of Boilers 2 Rotating whole oil boilers Working Pressure 60

Tested by hydraulic pressure to 120 Date of test 7/2-1931 No. of Certificate Can each boiler be worked separately

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 1 off, single spring loaded 2" dia

Number of each set of valves per boiler { per Rule 2, 24 sq. in. as fitted Pressure to which they are adjusted Are they fitted with easing gear

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

Least distance between boilers or uptakes and bunkers or woodwork Is oil fuel carried in the double bottom under boilers

Least distance between shell of boiler and tank top plating Is the bottom of the boiler insulated

Internal dia. of boilers 2600 mm. Length 7015 mm. Shell plates: Material steel Tensile strength 28-35

Thickness 13 mm. Are the shell plates welded or flanged and perforated Description of riveting: circ. seams { end single inter double

Number of rivets double r. single ballast Diameter of rivet holes in { circ. seams 23.5 mm. long. seams 23.5 mm. Pitch of rivets { 60.3 mm. 75.2 mm.

Percentage of strength of circ. end seams { plate 61 rivets 41 Percentage of strength of circ. intermediate seam { plate rivets

Percentage of strength of longitudinal joint { plate 68 rivets 133 combined Working pressure of shell by Rules 6.5 kg/cm<sup>2</sup>.

Number of butt straps { outer 15 mm. inner No. and Description of Furnaces in each Boiler

Tensile strength Smallest outside diameter

Thickness of plates { crown bottom Description of longitudinal joint

Number of stiffening rings on furnace or c.c. bottom Working pressure of furnace by Rules

Stays in steam space: Material steel Tensile strength 26-30 Thickness 25 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 { front back

Stays 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

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

Working pressure Main stays: Material Tensile strength

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

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



THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

