

REPORT ON BOILERS.

No. 86308

10 OCT 1930

Received at London Office

When handed in at Local Office

8/10/30

Port of Newcastle-on-Tyne

Survey held at

Wallsend.

Date, First Survey

21 Nov/29.

Last Survey

2 Oct/30

1930

(Number of Visits)

Gross

7369

Tons

Net 4765

Built at

W. Hartlepool

By whom built

W. Gray & Co

Yard No.

When built 1915-6

made at

Hartlepool

By whom made

Ben Har Engwks.

Engine No.

When made do

made at

do

By whom made

do.

Boiler No.

When made do

Horse Power

211

Owners

Montgomery & Winkman (1920) Ltd

Port belonging to

Liverpool.

TITUBULAR BOILERS MAIN, AUXILIARY, OR DONKEY.

Superheaters only.

(Letter for Record)

Coal or Oil fired

Working Pressure

Description of Boilers

by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Firegrate in each Boiler

No. and Description of safety valves to each boiler

of each set of valves per boiler

per Rule
as fitted

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

Length

Shell plates: Material

Tensile strength

Are the shell plates welded or flanged

Description of riveting: circ. seams

end
inter.

Diameter of rivet holes in

circ. seams
long. seams

Pitch of rivets

age of strength of circ. end seams

plate
rivets

Percentage of strength of circ. intermediate seam

plate
rivets

age of strength of longitudinal joint

plate
rivets
combined

Working pressure of shell by Rules

ss of butt straps

outer
inner

No. and Description of Furnaces in each Boiler

Tensile strength

Smallest outside diameter

of plain part

top
bottom

Thickness of plates

crown
bottom

Description of longitudinal joint

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

Working pressure of furnace by Rules

ates in steam space: Material

Tensile strength

Thickness

Pitch of stays

re stays secured

Working pressure by Rules

lates: Material

front
back

Tensile strength

Thickness

itch of stay tubes in nests

Pitch across wide water spaces

Working pressure

front
back

s 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

t stays to ditto: Sides

Back

Top

Are stays fitted with nuts or riveted over

g pressure by Rules

Front plate at bottom: Material

Tensile strength

ss

Lower back plate: Material

Tensile strength

Thickness

f stays at wide water space

Are stays fitted with nuts or riveted over

g Pressure

Main stays: Material

Tensile strength

At body of stay,
or
Over threads

No. of threads per inch

Area supported by each stay

g 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

Working pressure by Rules. Are the stays drilled at the outer ends Margin stays: Diameter { At turned off part, or Over threads. Working pressure by Rules. 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 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 of 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 North Eastern Smoke tube Manufacturers of Tubes Weldless steel tubes & Steel castings forged & Birmingham Steel Co Number of elements Main Bh 210 Aux Bh 56 Material of tubes mild drawn steel Internal diameter and thickness of tubes 14" x 2.5" Material of headers forged steel Tensile strength 26 to 30 tons Thickness Main Bh 13" Can the superheater be shut the boiler be worked separately yes Is a safety valve fitted to every part of the superheater which can be shut off from the boiler yes Area of each safety valve 3.1416 High lift. Are the safety valves fitted with easing gear yes Working pressure Rules 225 lbs Pressure to which the safety valves are adjusted 230 lbs Hydraulic test tubes 1500 lbs castings 675 lbs and after assembly in place 500 lbs Are drain cocks or cocks to free the superheater from water where necessary yes

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 - - } Are the approved plans of boiler and superheater forwarded herewith (If not state date of approval.) while { During erection on board vessel - - - } Total No. of visits building

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 superheaters have been built under special survey, material & workmanship good. Hydraulic tests satisfactory, satisfactory installed examined under steam & safety valve adjusted.

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

William Butler

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute TUE. 21 OCT 1937

FRI. 20 MAR 1931

Assigned

TUE. 8 DEC 1931

FRI. 11 DEC 1931

TUE. 15 NOV 1932

Lloyd's Register Foundation